SERVICE MANUAL

SANYO

STEREO MUSIC SYSTEM

GCX7060LU

SPECIFICATIONS

(AM TUNER SECTION)

Frequency range	LW : 146— 361 KHz MW : 522— 1619 KHz SW1 : 6— 10 MHz SW2 : 10— 14 MHz SW2 : 14— 18 MHz
Intermediate Frequency (I. F.)	460 KHz
Usable sensitivity (IHF)	Better than 35 dB
Selectivity (IHF)	Better than 40 dB
Signal to noise ratio	Better than 45 dB

(FM TUNER SECTION)

Frequency range	87.5— 108.79 MHz
Intermediate Frequency	10.7 MHz
Sensitivity (26 dB S/N, 40 KHz dev.)	1 μV
Limiting sensitivity (—3 dB)	1 μV
Selectivity (±300 KHz)	Better than 55 dB
Signal to noise ratio	Better than 55 dB
Harmonic distortion	Less than 0.5%
Stereo channel separation (1 KHz)	Better than 35 dB
Frequency responce (±3 dB)	20— 15000 Hz
AM Rejection	Better than 50 dB
IF Rejection	Better than 90 dB
Antenna impedance	75 ohm (IFC, Coaxial)

(AMP. SECTION)

Continuous Power output 1 KHz, Both channel drive at 8 ohms	2x40 W
Harmonic distortion	Less than 0.5% at rated power output
Power bandwidth at T. H. D. 0.5% (at — 3 dB P_N)	20— 20,000 Hz
Frequency range at — 1.5 dB P_N	10— 50,000 Hz
Signal to noise ratio	Unweighted 2x50 mW Better than 55 dB
Tone control	
Bass	±10 dB at 100 Hz
Treble	±10 dB at 10 KHz
Input sensitivity/Impedance	
Phono (M. M)	2. 5 mV/47 K ohm
Tape 1	150 mV/200 K ohm
Tape 2/ Monitor	150 mV/200 K ohm

(GENERAL)

Power supply	AC 110/120/220V, 50/60 Hz
Output Impedance	8 ohm

ALIGNMENT PROCEDURES

AM sound IF and Stop signal IF Alignment

Step	Alignment Frequency	Test Equipment Connection	Adjustment
1	460 KHz	Connect sweep generator to J6 (TP1) and oscilloscope to J8 (TP2)	Tune T8, T9 and T4 for symmetrical "IF" curve (Fig. 1)
2	460 KHz	Connect sweep generator to J6 (TP1) and oscilloscope to J9 (TP3)	Tune T5, T6 and T7 for symmetrical "IF" curve (Fig. 1)

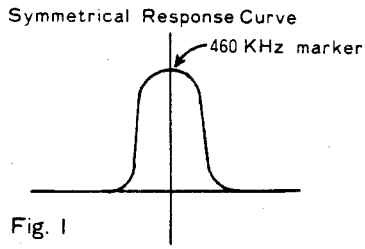


Fig. 1

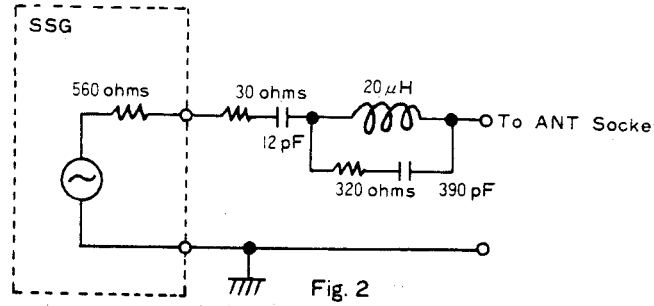


Fig. 2

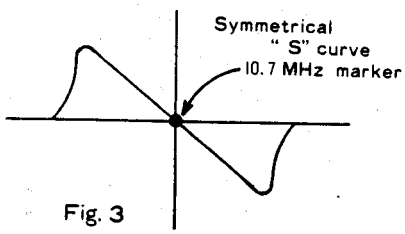


Fig. 3

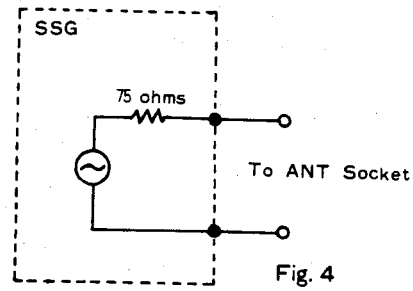


Fig. 4

AM Alignment

Step	Mode	Signal Input	Frequency and Modulation of SSG	Dial Setting of Radio	Test Equipment Connection	Adjustment
1	LW			146 KHz	Connect volt meter to CP6 (2) (TP4) and common ground.	Adjust L18 for voltage to be 1.7V
2	LW			361 KHz		Adjust CT11 for voltage to be 9.5V
3	MW			522 KHz		Adjust L19 for voltage to be 1.2V
4	MW			1,619 KHz		Adjust CT12 for voltage to be 9.5V
5	SW1			6.000 MHz		Adjust L20 for voltage to be 4.5V
6	SW1			10.009 MHz		Adjust CT13 for voltage to be 9.5V
7	SW2			10.000 MHz		Adjust L21 for voltage to be 5.0V
8	SW2			14.009 MHz		Adjust CT14 for voltage to be 9.5V
9	SW3			14.000 MHz		Adjust L22 for voltage to be 5.3V
10	SW3			18.009 MHz		Adjust CT15 for voltage to be 9.5V
11	LW	Thru dummy ANT (Fig. 2)	150 KHz 30%	150 KHz	Connect a VTVM to output terminal.	Tune L13 for maximum out put
12	LW		350 KHz 30%	350 KHz	〃	Tune CT6 for maximum out put
13	MW		600 KHz 30%	600 KHz	〃	Tune L14 for maximum out put
14	MW		1,400 KHz 30%	1,400 KHz	〃	Tune CT7 for maximum out put
15	SW1		6.000 MHz 30%	6.000 MHz	〃	Tune L15 for maximum out put
16	SW1		10.000 MHz 30%	10.000 MHz	〃	Tune CT8 for maximum out put

ALIGNMENT PROCEDURES

FM Tuning Meter Offset Adjustment

Step	Mode	Component to be adjusted (Tuning Meter to be adjusted for 0 point)
1	MW	SVR 2

FM Muting Band Width Adjustment

Step	Signal Input	Output Frequency and Modulation of SSG	Dial Setting of Radio	Components to be Adjusted
1	Thru dummy ANT (Fig.4)	60 dB 98 MHz 40 KHz	98 MHz	±45 KHz SVR 3 Muting ON

FM Mute Level Adjustment

Step	Signal Input	Output Frequency and Modulation of SSG	Dial Setting of Radio	Components to be Adjusted
1	Thru dummy	20 dB 98 MHz 40 KHz	98 MHz	SVR6 Muting on

FM MPX Adjustment (Fig. 5)

Step	Subject	Standard Signal Generator	Stereo Signal Generator		Components to be adjusted	Test point	Indication
			Pilot Signal	Main Left, Right and Sub Signal			
1	Adjustment of 19 KHz	———	———	———	SVR 4	J5 (CS7 pull off)	19 KHz
2	Adjustment of separation	98 MHz 60 dB	10 % Mod.	40 KHz with main channel right channel (or left channel)	SVR 5	Left channel out put (or right channel output)	Min out put

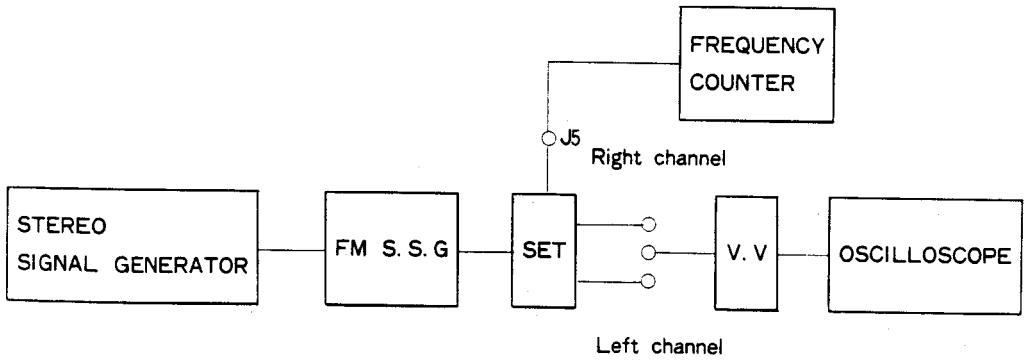


Fig. 5

Crystal Alignment (Logic)

1) Connect frequency counter to pin 18 of IC 707 and common ground.
2) Adjust trimmer CT701 for frequency to be 72.000 MHz.

Step	Mode	Signal Input	Frequency and Modulation of SSG	Dial Setting of Radio	Test Equipment Connection	Adjustment
17	SW2	Thru dummy ANT (Fig. 2)	10.000 MHz	10.000 MHz	Connect a VTVM to output terminal.	Tune L16 for maximum out put
18	SW2		14.000 MHz	14.000 MHz	〃	Tune CT9 for maximum out put
19	SW3		14.000 MHz	14.000 MHz	〃	Tune L17 for maximum out put
20	SW3		18.000 MHz	18.000 MHz	〃	Tune CT10 for maximum out put

Repeat Step 1 and 2. (3 and 4, 5 and 6, 7 and 8, 9 and 10, 11 and 12, 13 and 14, 15 and 16, 17 and 18, 19 and 20)

AM Signal Meter Adjustment

Step	Mode	Signal Input	Frequency and Modulation of SSG	Dial Setting of Radio	Signal Meter to be for 4/5 scale A
1	MW	Thru dummy ANT (Fig. 2)	76 dB 1,000 KHz 30%	1,000 KHz	Adjust SVR6.

AM Stop Signal Level Adjustment

Step	Mode	Signal Input	Frequency and Modulation of SSG	Dial Setting of Radio	Test Equipment Connection	Adjustment
1	MW	Thru dummy ANT (Fig. 2)	50 dB 1,000 KHz 30%	1,000 KHz	Connect volt meter to J20 (TP5) and common ground	Adjust SVR 7 for Voltage to be 5.0 V

FM IF Alignment

Step	Alignment Frequency	Test Equipment Connection	Adjustment
1	10.7 MHz	Connect sweep generator to R7 (TP6) and oscilloscope to test point J4 (TP7)	Tune T1, T2 and T3 for symmetrical "S" curve (Fig. 3)

FM RF Alignment

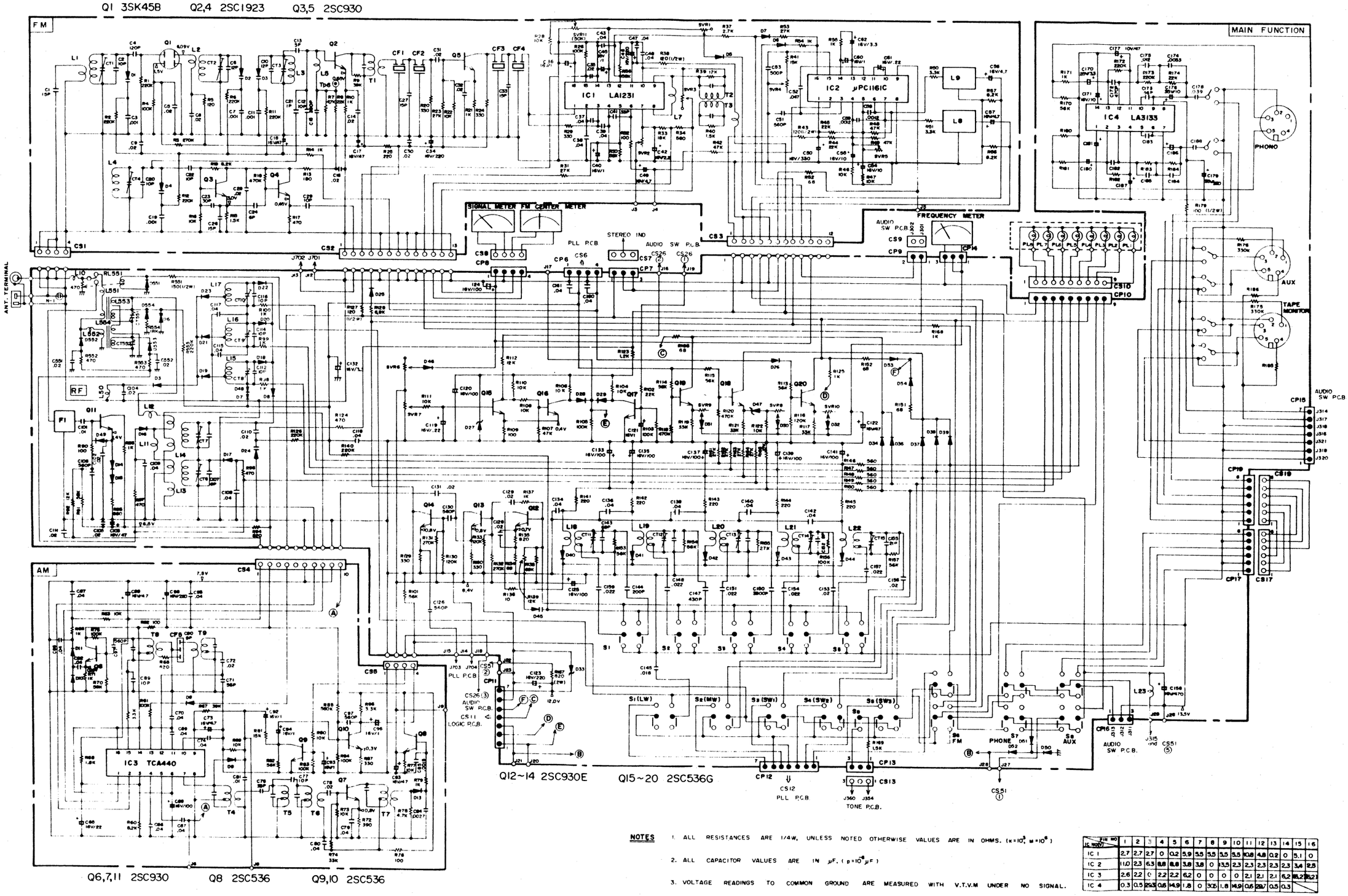
Step	Signal Input	Frequency and Modulation of SSG	Dial Setting of Radio	Test Equipment Connection	Adjustment
1	Thru dummy ANT (Fig. 4)	———	87.50 MHz	Connect volt meter to CP6 (4) (TP8) and Common ground	Adjust L4 for voltage to be 2.6 V
2		———	108.79 MHz		Adjust CT4 for voltage to be 9.5 V
3		90.0 MHz, 40 KHz	90.0 MHz	Connect a VTVM to output terminal.	Tune L1, L2 and L3 for maximum out put
4		106.0 MHz, 40 KHz	106.0 MHz		Tune CT1, CT2 and CT3 for maximum out put

Repeat Step 1 and 2. Repeat Step 3 and 4.

FM Signal Meter Adjustment

Step	Signal Input	Output Frequency and Modulation of SSG	Dial Setting of Radio	Components to be adjusted (Signal Meter to be adjusted for full scale.)
1	Thru dummy ANT (Fig. 4)	80 dB 98 MHz 40 KHz	98 MHz	SVR 1

SCHEMATIC DIAGRAM



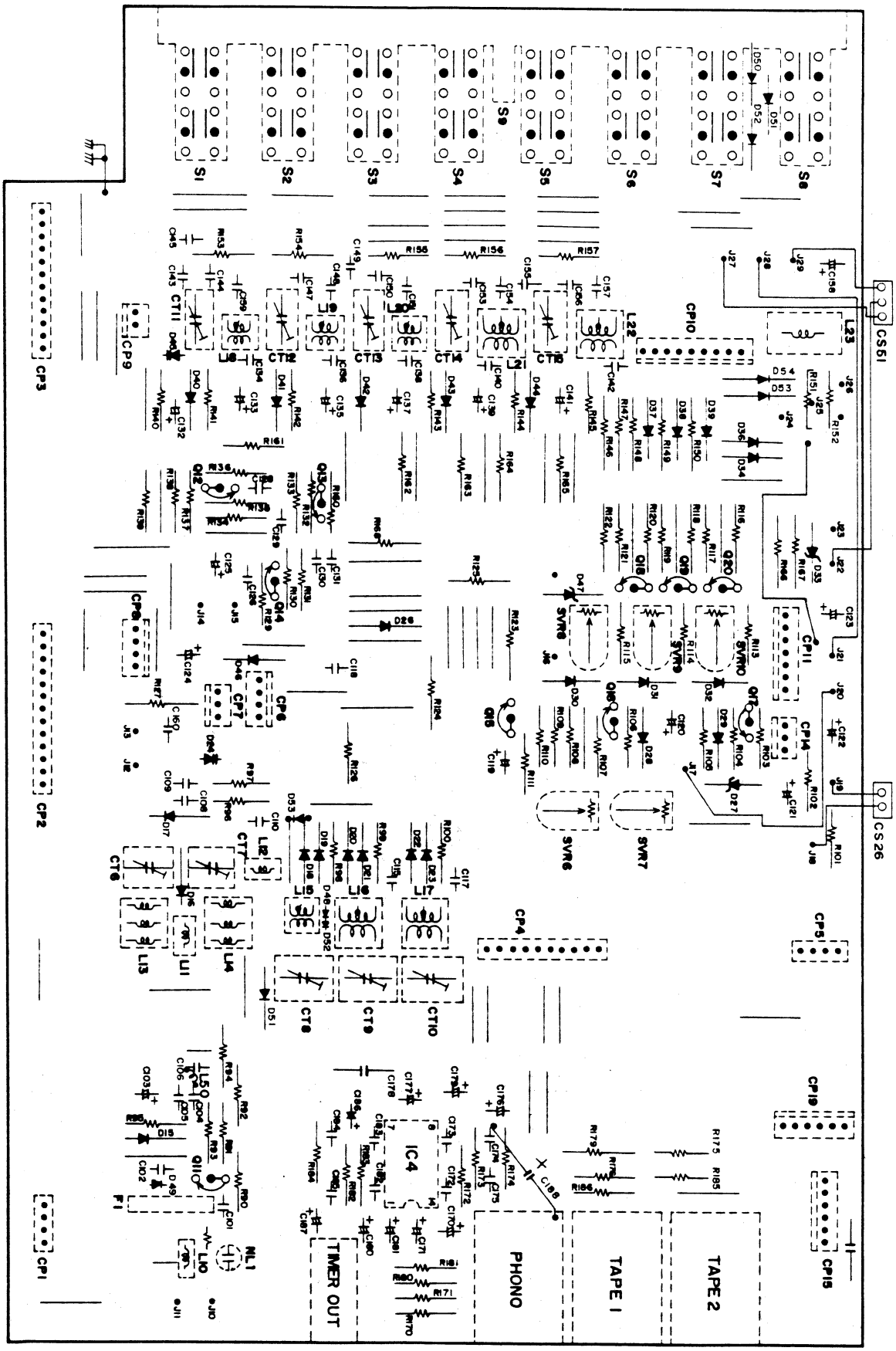
NOTES

1. ALL RESISTANCES ARE 1/4W, UNLESS NOTED OTHERWISE VALUES ARE IN OHMS. (k=10^3 M=10^6)
2. ALL CAPACITOR VALUES ARE IN μF. (p=10^{-6}μF)
3. VOLTAGE READINGS TO COMMON GROUND ARE MEASURED WITH V.T.V.M UNDER NO SIGNAL.
4. THIS SCHEMATIC DIAGRAM MIGHT BE MODIFIED WITH DEVELOPMENT OF TECHNOLOGY.

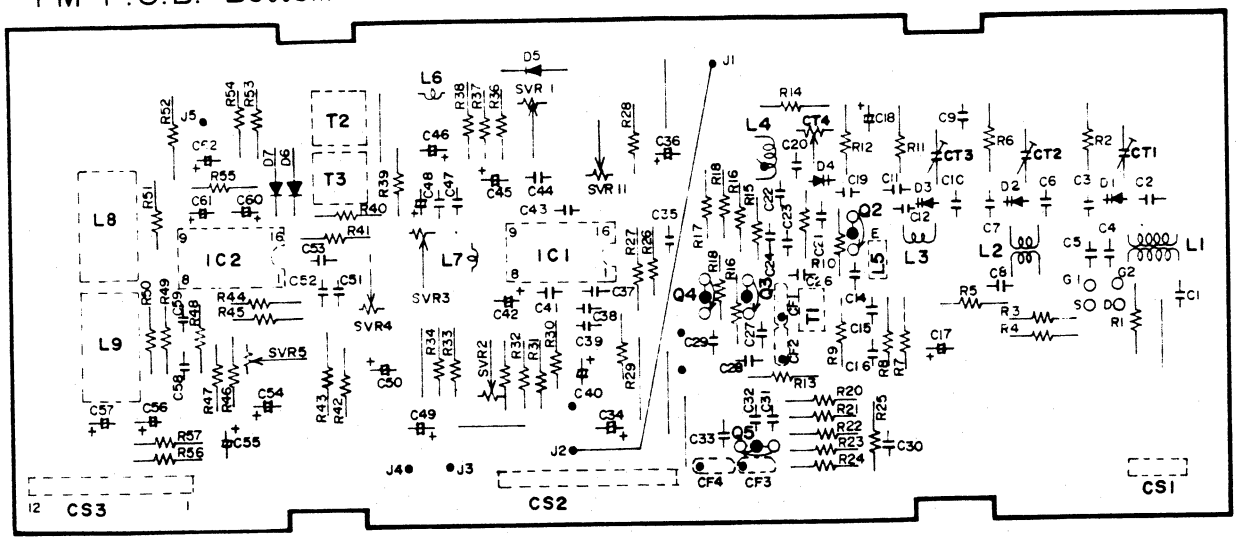
PIN NO / IC NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
IC 1	2.7	2.7	2.7	0	0.2	5.9	5.5	5.5	5.5	5.5	10.8	4.8	0.2	0	5.1	0
IC 2	11.0	2.3	6.3	8.8	8.8	3.8	3.8	0	13.5	2.3	2.3	2.3	2.3	2.3	3.4	2.5
IC 3	2.6	2.2	0	2.2	2.2	6.2	0	0	0	0	2.1	2.1	2.1	6.2	8.2	8.2
IC 4	0.3	0.5	25.3	0.6	14.9	1.8	0	30.5	1.8	14.9	0.6	29.7	0.5	0.3		

WIRING DIAGRAM

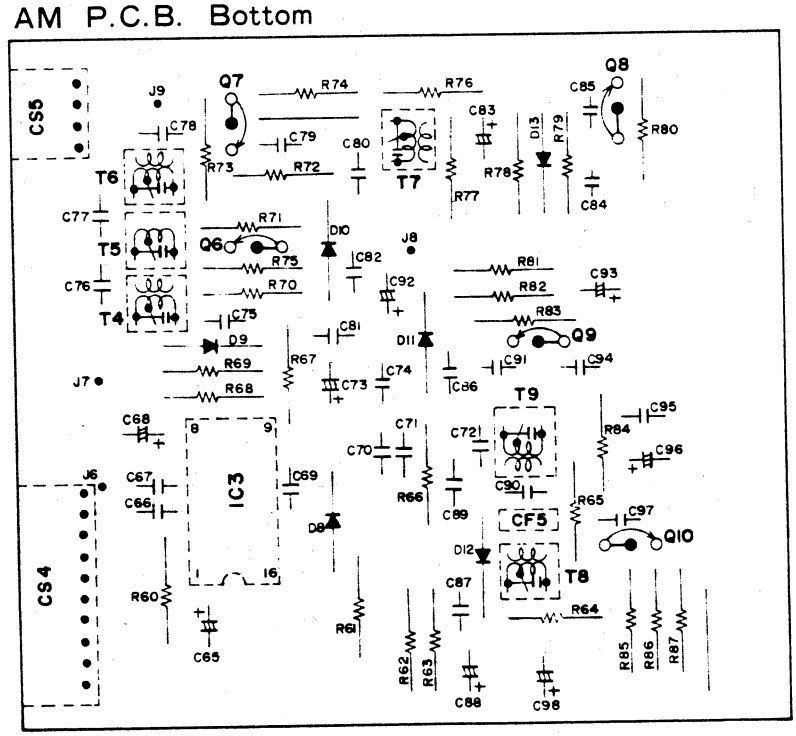
MAIN FUNCTION P.C.B. Bottom



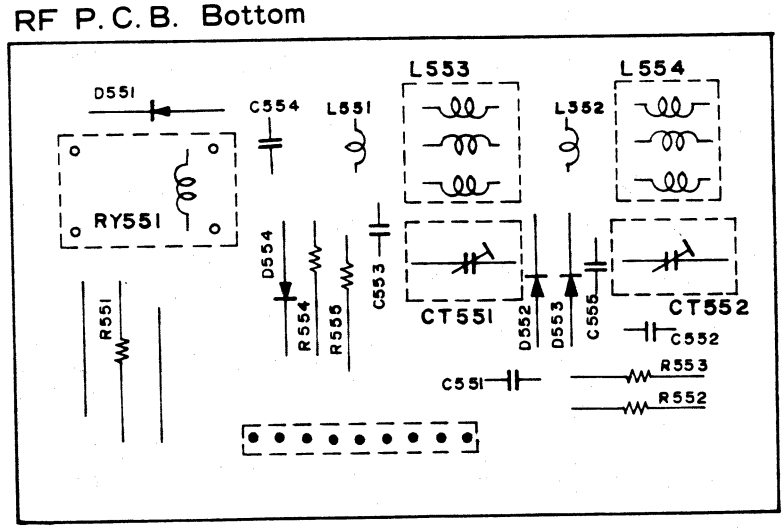
FM P.C.B. Bottom



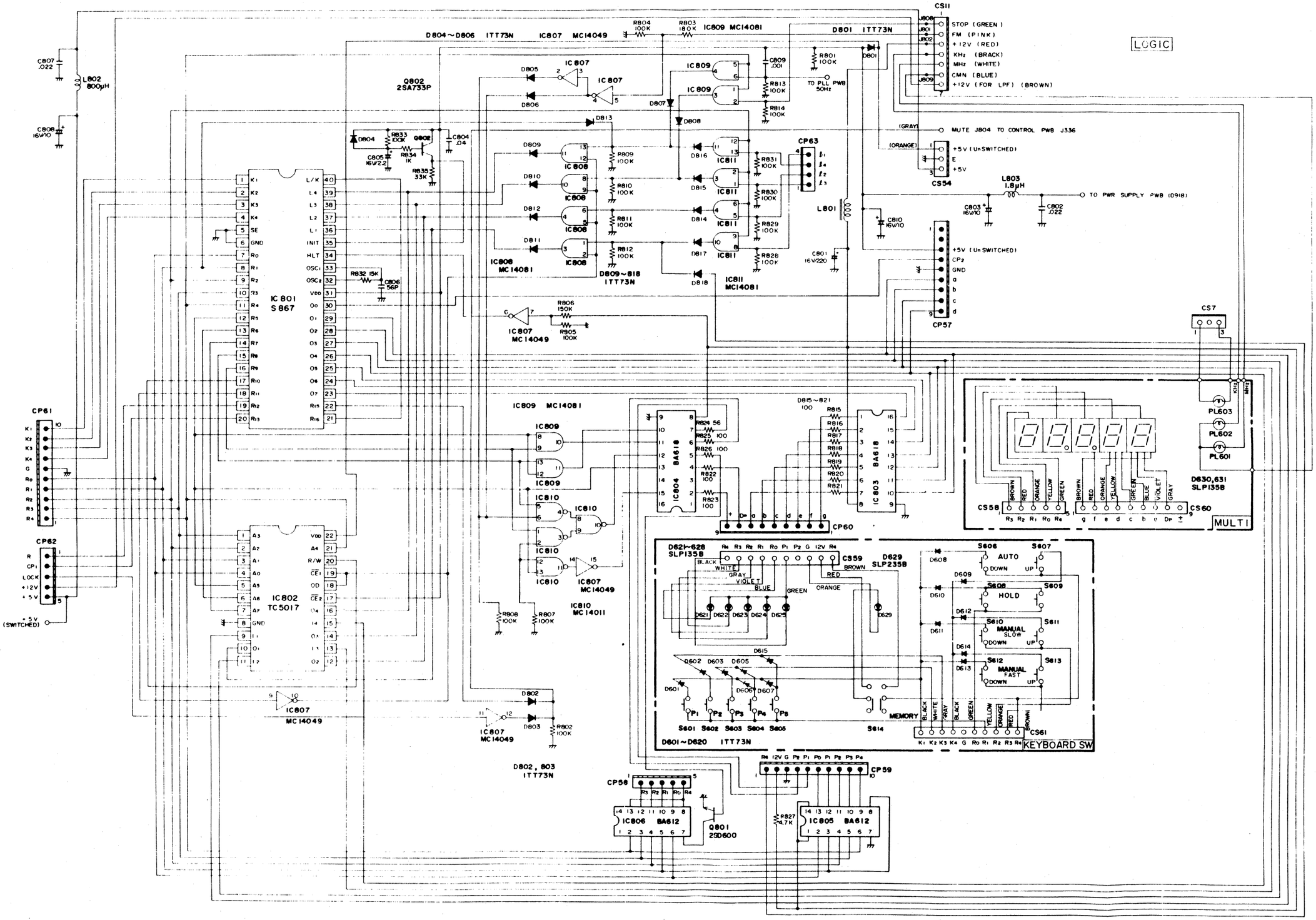
AM P.C.B. Bottom



RF P.C.B. Bottom

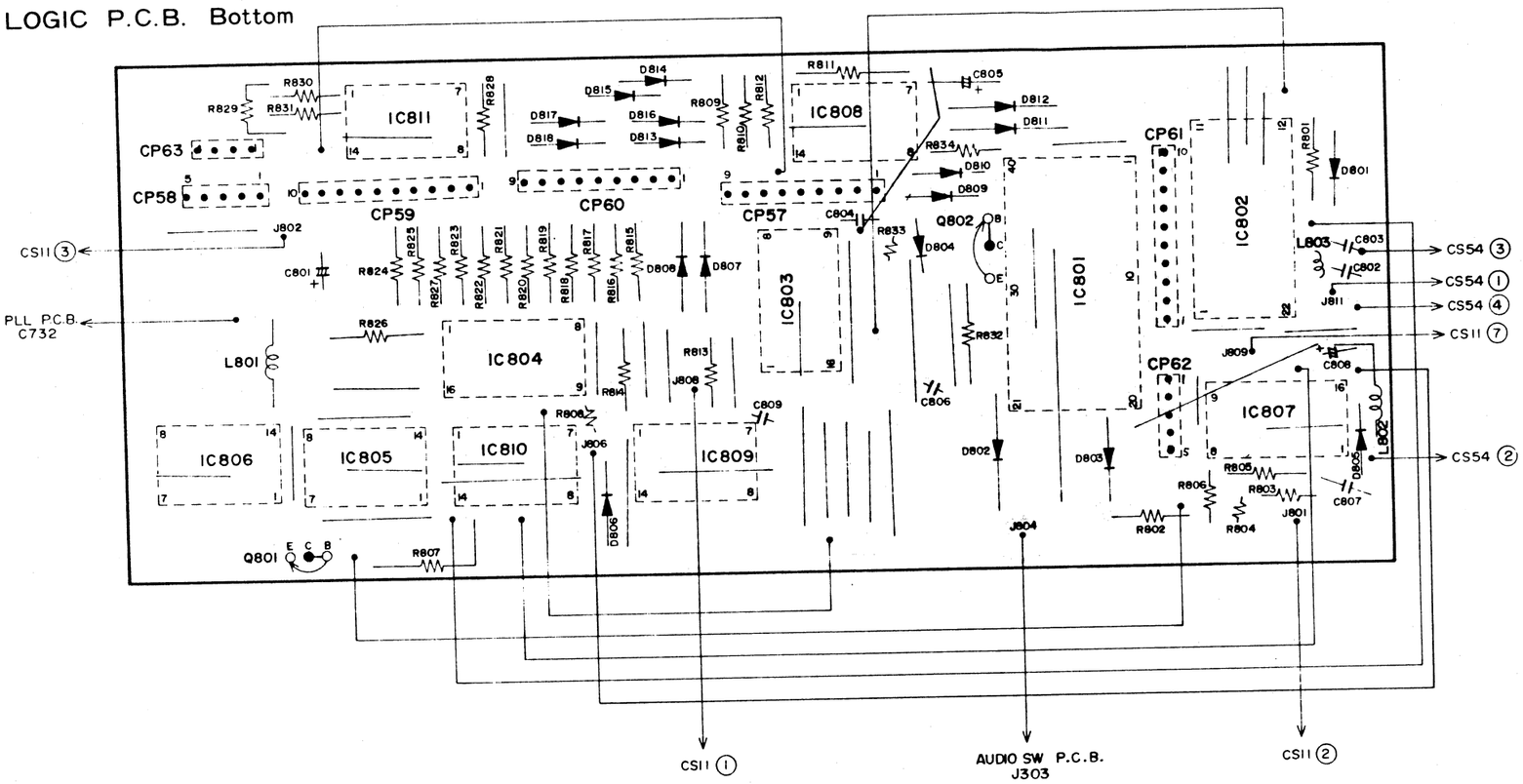


SCHEMATIC DIAGRAM

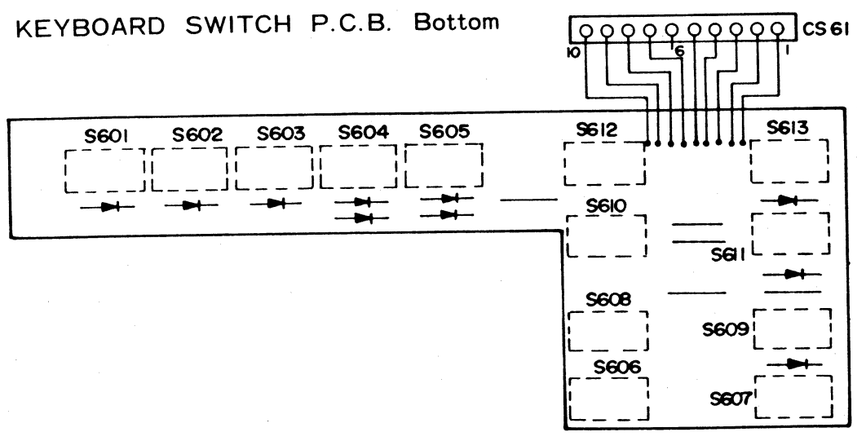


WIRING DIAGRAM

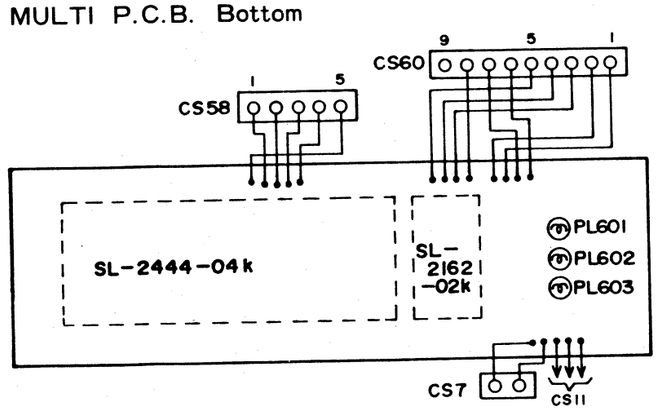
LOGIC P.C.B. Bottom



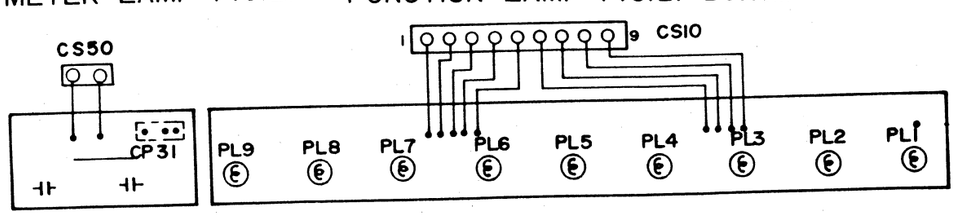
KEYBOARD SWITCH P.C.B. Bottom



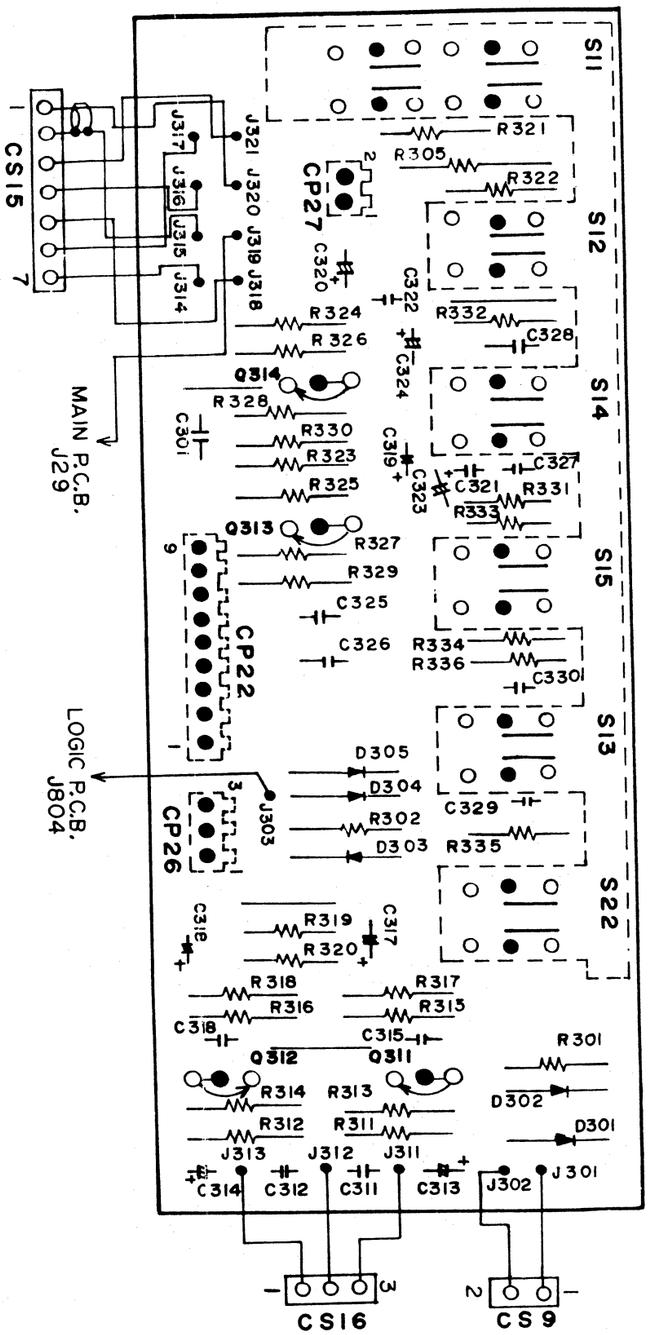
MULTI P.C.B. Bottom



METER LAMP P.C.B. FUNCTION LAMP P.C.B. Bottom

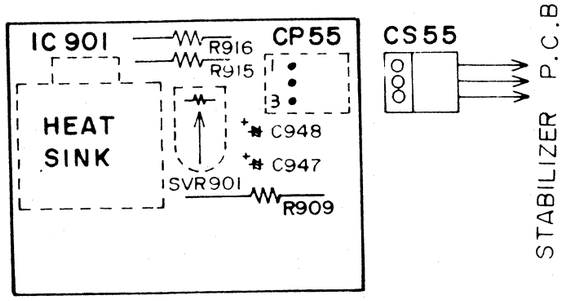


AUDIO SWITCH P.C.B. Bottom

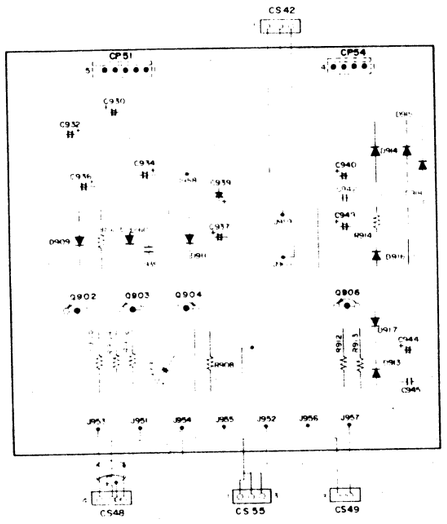


WIRING DIAGRAM

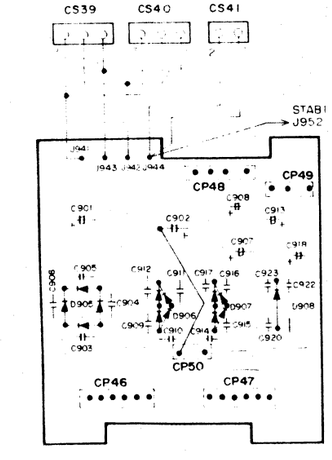
POWER SUPPLY P.C.B. Bottom



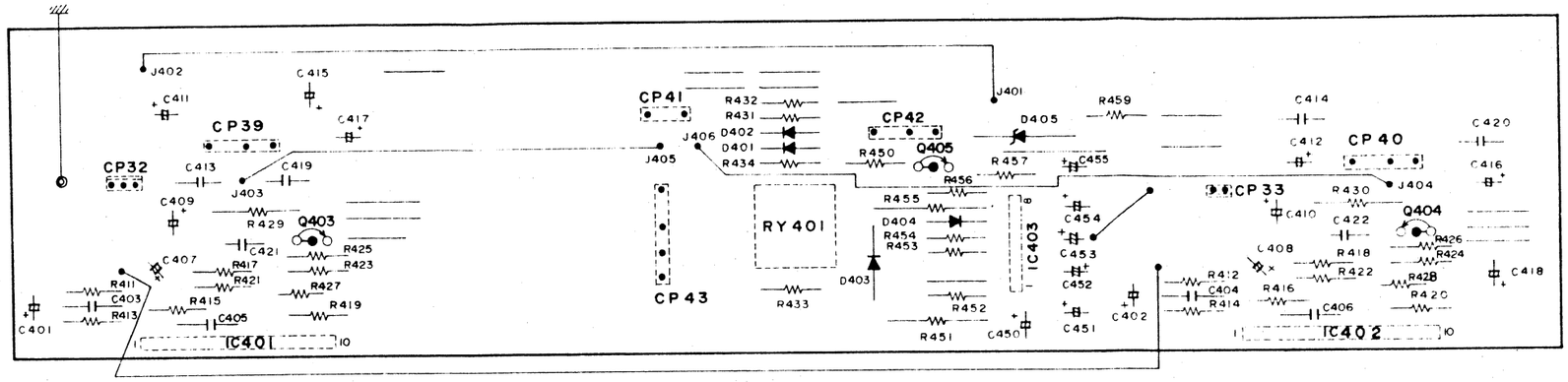
STABILIZER P.C.B. Bottom



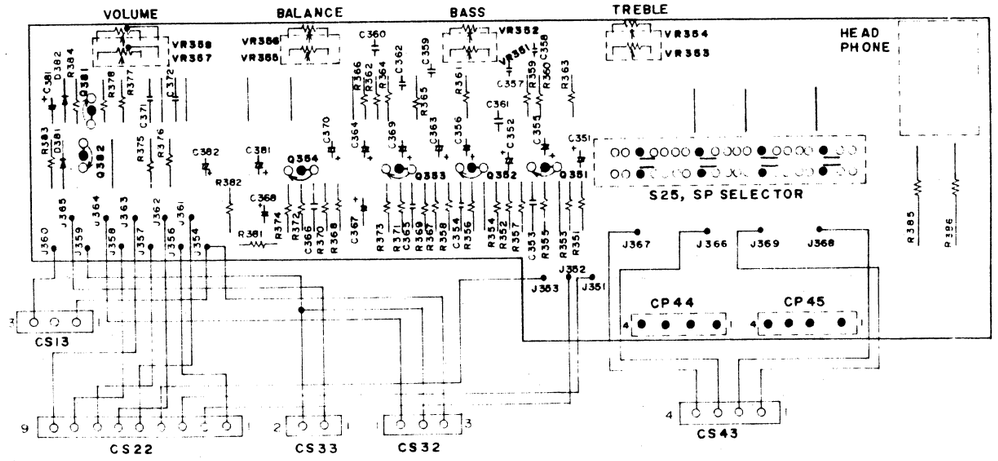
DETECTOR P.C.B. Bottom



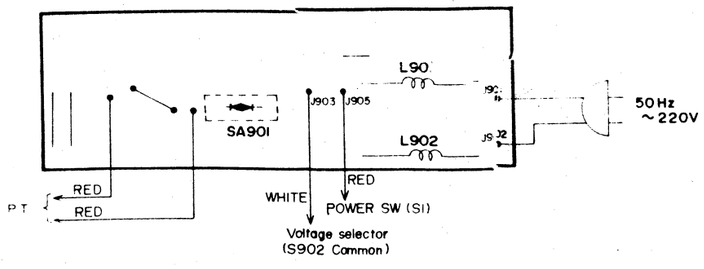
AMP P.C.B. Bottom



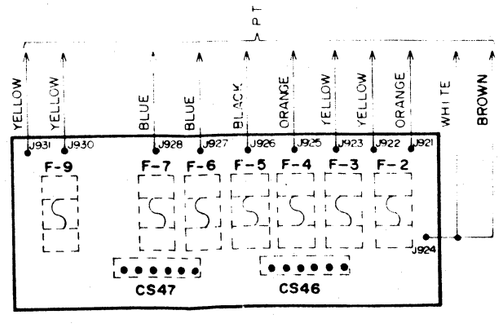
TONE P.C.B. Bottom



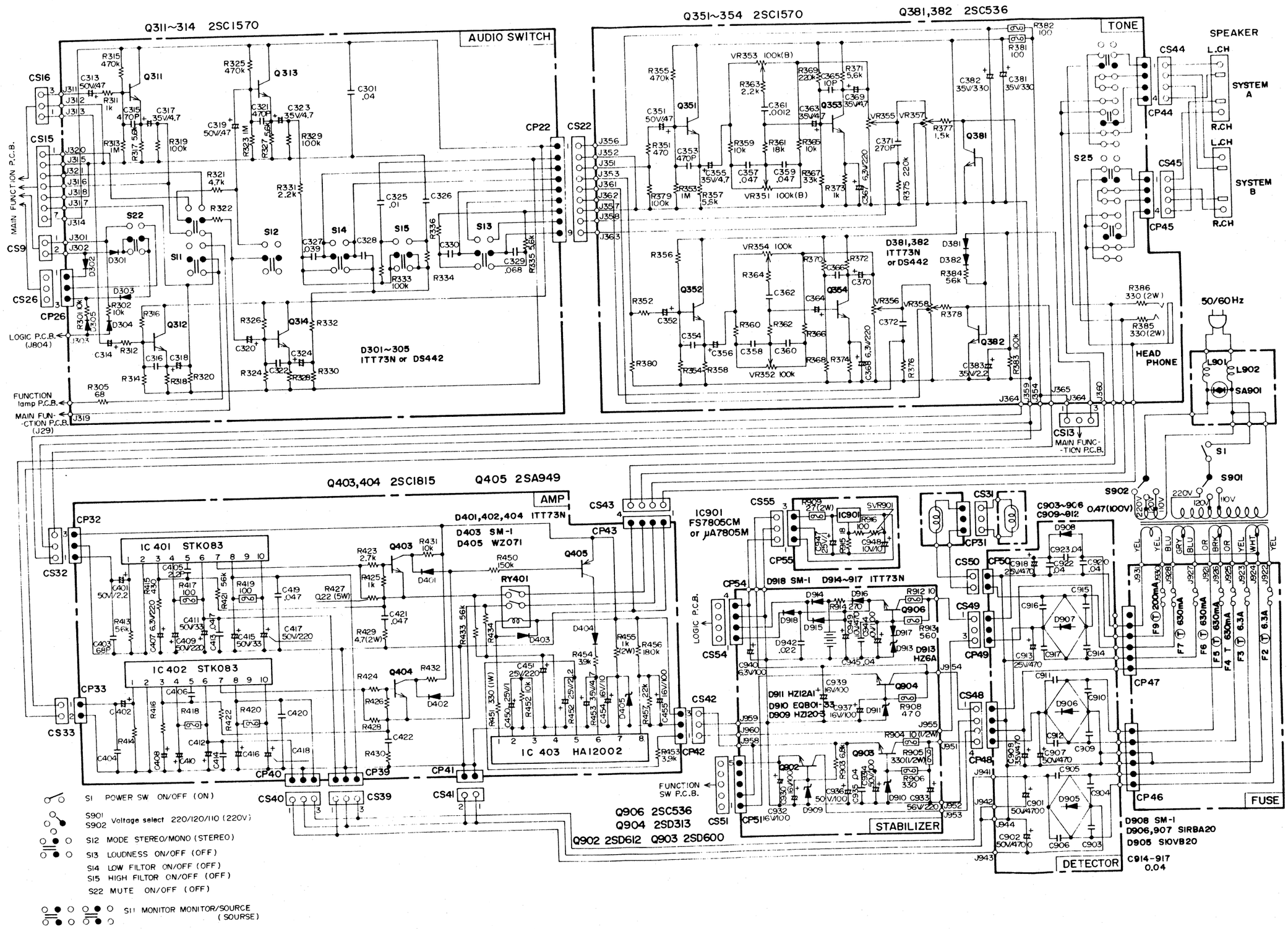
AC RELAY P.C.B. Bottom



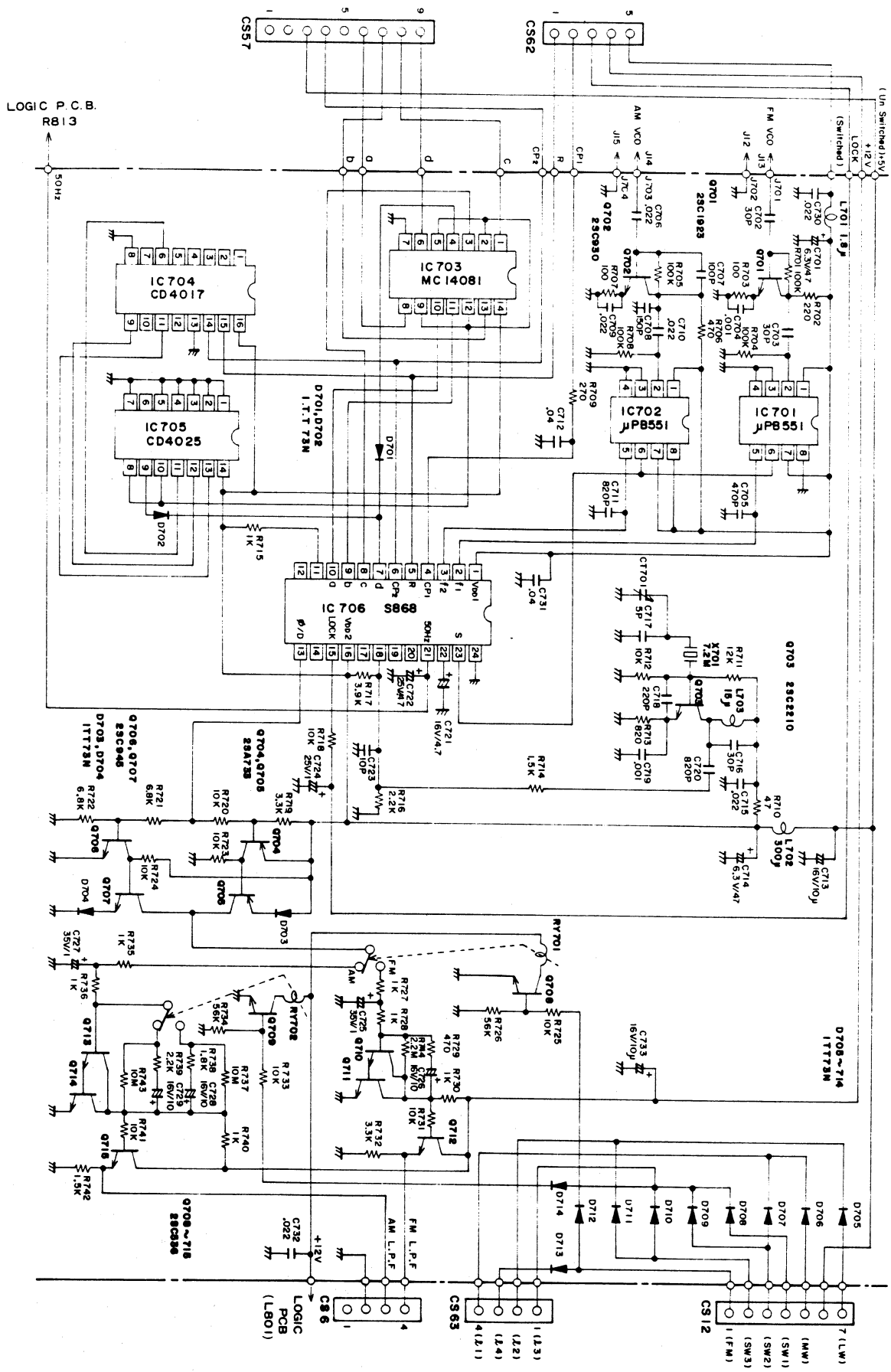
FUSE P.C.B. Bottom



SCHEMATIC DIAGRAM

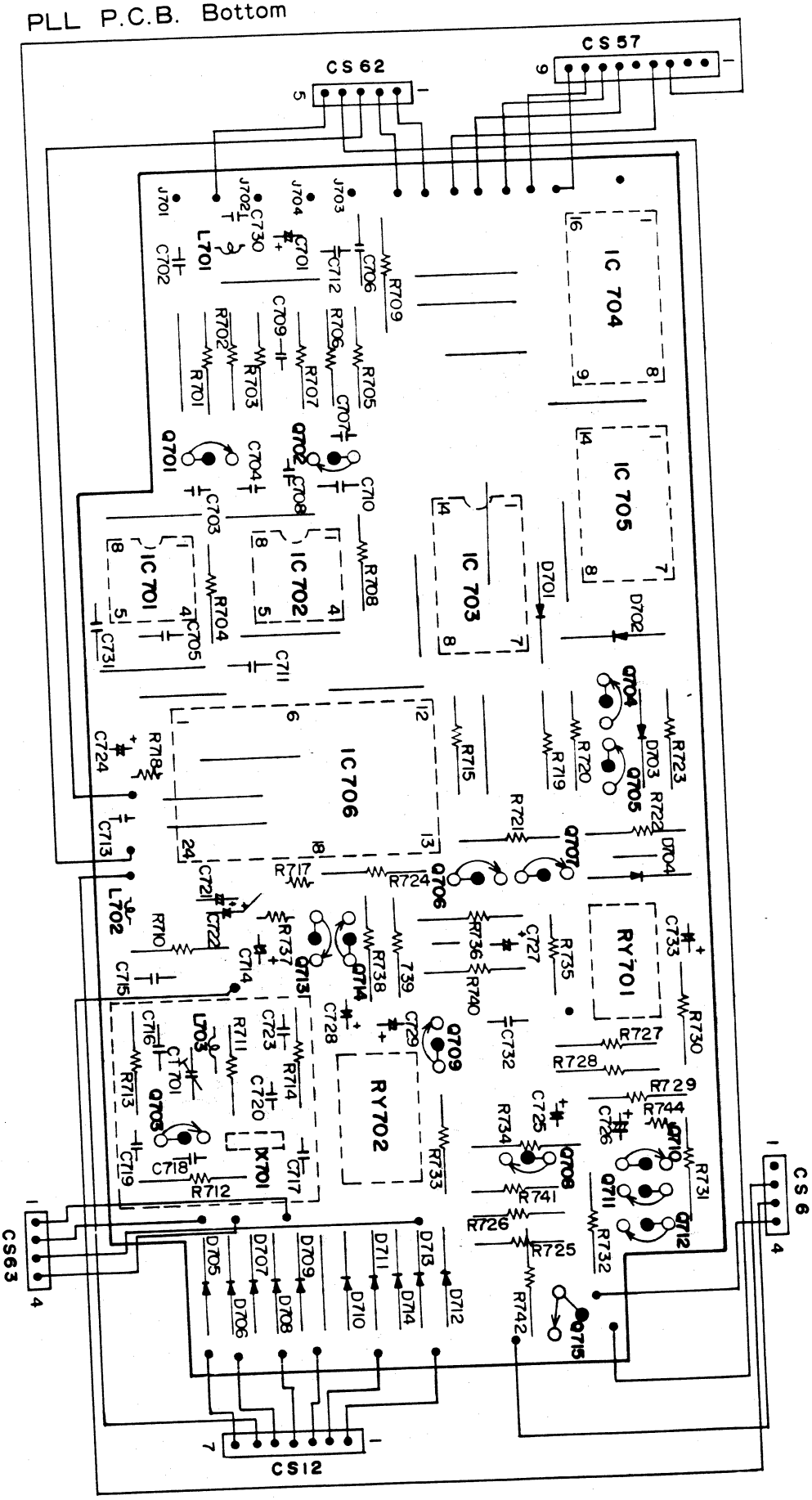


SCHEMATIC DIAGRAM

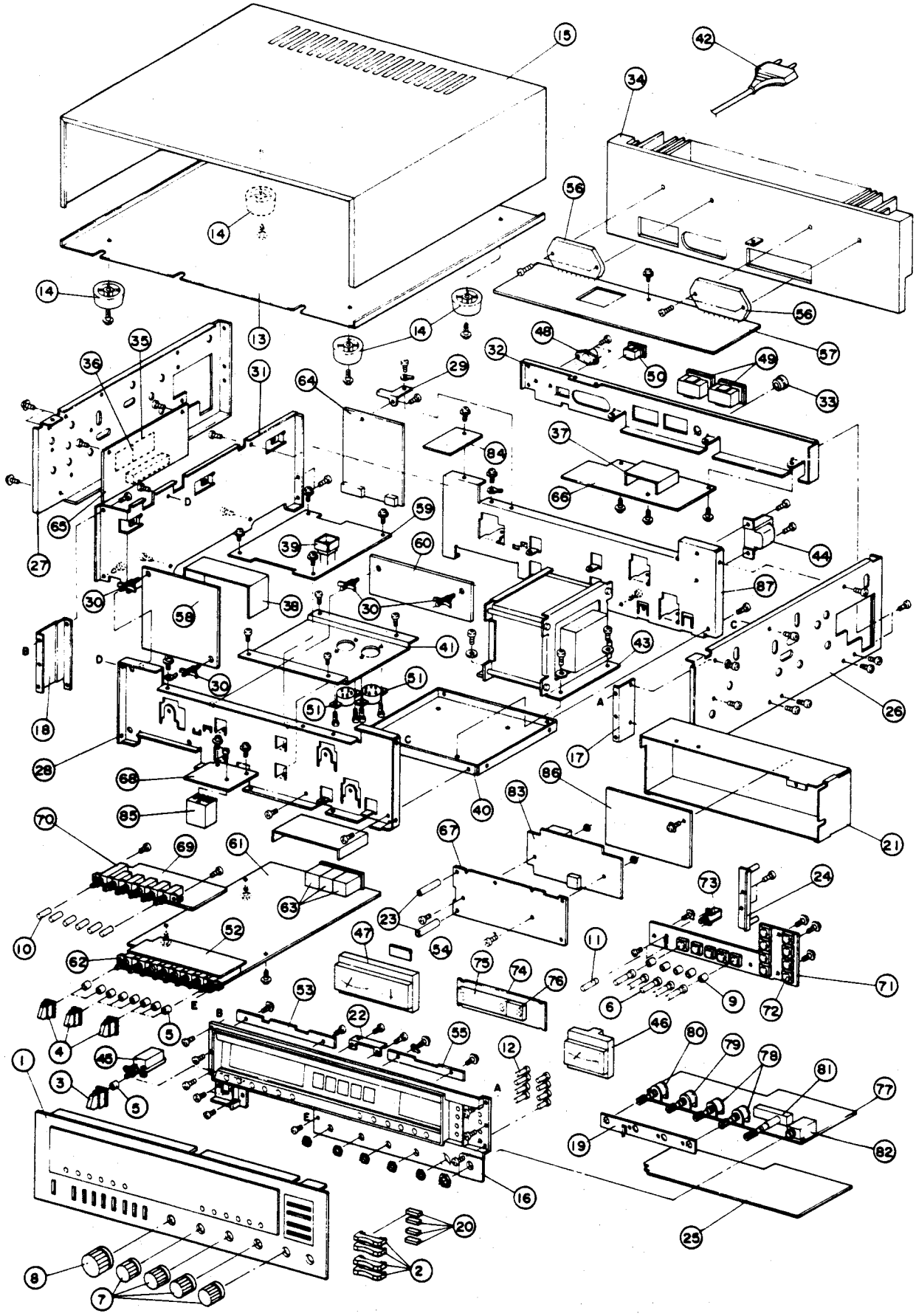


WIRING DIAGRAM

PLL P.C.B. Bottom



EXPLODED VIEW



PARTS LIST

Key No.	Ref. No.	Part No.	Description	Q'ty
PACKAGE PARTS				
		R-477945	Tag, Voltage	1
			Polyethylene bag, 100x240, AC cord	1
		R-357441	Polyethylene bag, Set	1
		R-4773570	Instruction book, Switzerland	1
		R-4774169	Instruction book, others	
			Polyethylene bag, 240x320, Instruction book	1
		R-4172221	Protector, Set front	1
		R-4172222	Protector, Set rear	1
		R-4074575	Individual carton	1
		R-357449	Sheet, Heat sink	2
ACCESSORY PARTS				
		R-S871212	AM antenna assembly	1
		R-S37219	FM antenna	1
		R-S27434	AC adaptor, except Switzerland	1
		R-S17102	AC adaptor, except Switzerland	1
CABINET APPEARANCE PARTS				
1		R-A74619	Panel assembly, Front	1
			Screw, Pan Hd., 3x8 B-tight	6
2		R-3972969	Knob, Tuning	4
20			Cushion, 5x5x25, Tuning knob	4
3•4		R-A73684	Knob assembly, Function/Power	9
5		R-4171489	Cushion, Power/Function knob	9
6		R-A74621	Knob assembly, Preset SW	5
7		R-A74622	Knob assembly, BASS	4
8		R-A74623	Knob assembly, Vol.	1
9		R-4171489	Cushion, Preset SW	5
10		R-277499	Knob, TAPE MONITOR/PUSH SW	6
11		R-277578	Knob, Memory SW	1
12		R-3972621	Connector, Tuning	8
15		R-A74964	Top case assembly	1
			Screw, Pan Hd., 3x8 S-tight	4
			Flat Washer, Metal, 3.1x8x1t	4
13		R-1271915	Bottom case	1
			Screw, Pan Hd., 3x6 B-tight	9
			Screw, Pan Hd., 3x4 S-tight	3
14		R-S870908	Foot base	4
			Screw, Pan Hd., 3x8 S-tight	4
		R-4770191	Attention sheet, Bottom case	1
		R-4773576	Label, Voltage select	1
CHASSIS MECHANICAL PARTS				
16		R-A74624	Chassis assembly, Front	1
17		R-1271916	Metal bracket, Chassis right	1
			Screw, Pan Hd., 3x8 B-tight	3
18		R-1271917	Metal bracket, Chassis left	1
			Screw, Pan Hd., 3x16 B-tight	3
19		R-1271918	Earth terminal, VR	1
		R-437364	Protector, Logic P. C. B.	2
		R-4172272	Sheet, LSI	1
21		R-1271919	Shield plate, LED drive	1
			Screw, Pan Hd., 3x6 B-tight	2
			Screw, Pan Hd., 3x8 B-tight	4
		R-1271272	Shield case, Logic P. C. B.	1
		R-237191	Shield plate, Logic P. C. B.	1
22		R-1271921	Metal bracket, LED drive	1
			Screw, Pan Hd., 3x8 B-tight	2
		R-4172271	Sheet, Shield plate	2
		R-4172223	Sheet, Shield case	1
			Screw, Pan Hd., 3x30 B-tight	2
			Screw, Pan Hd., 3x6	2
23		R-277581	Pipe, LED drive P. C. B.	2
24		R-S871832	Metal bracket assembly, LED drive P. C. B.	1
			Screw, Pan Hd., 3x6 B-tight	2

Key No.	Ref. No.	Part No.	Description	Q'
		R-327464	Fix plastic board, LED	
25		R-4172219	Sheet, Tone P. C. B.	
26		R-1271804	Metal bracket, Right side	
			Screw, Pan Hd., 3x6 B-tight	
			Screw, Pan Hd., 3.5x6 B-tight	
27		R-1271805	Metal bracket, Left side	
			Screw, Pan Hd., 3x6 B-tight	
28		R-1271803	Chassis, Center front	
			Screw, Pan Hd., 3.5x6 B-tight	
29		R-1271844	Metal bracket, AM P. C. B.	
			Screw, Pan Hd., 3x6 B-tight	
		R-4774086	Label, Fuse	
30		R-377078	Fix plastic board, P. C. B. holder	
31		R-1271922	Metal bracket, Left side	
			Screw, Pan Hd., 3x6 B-tight	
86		R-2672577	Heat sink, Shield case	
			Screw, Pan Hd. with Washer, 3x6 B-tight	
32		R-1271923	Chassis, Rear	
33		R-377070	Bushing, AC card	
34		R-A74625	Heat sink assembly	
			Screw, Pan Hd. with Washer, 3x10 B-tight	
			Screw, Pan Hd., 3x8 B-tight	
35		R-1271850	Shield plate, FM Multi	
36		R-1271849	Shield plate, FM Multi	
37		R-1271848	Shield plate, PH EQ	
38		R-2672303	Heat sink, Transistor	
39		R-277449	Heat sink, Rectifier	
			Screw, Pan Hd. with Washer, "A", 3x12	
		R-257169	Earth board	
40		R-1271847	Metal bracket, Power trans.	
			Screw, Pan Hd., 3.5x6 B-tight	
41		R-1271924	Metal bracket, Voltage select	
			Screw, Pan Hd., 3x6 B-tight	
			Screw, Pan Hd., 3x10 B-tight	
			Screw, Pan Hd., 3x6 B-tight AM P. C. B. mtg.	
			Screw, Pan Hd., 3x10	
			Nut, Hex Hd., M3 Transistor mtg.	
			Screw, Pan Hd. with Washer, 3x6 B-tight Power supply P. C. B. mtg.	
			Screw, Pan Hd. with Washer, 3x6 B-tight Amp. P. C. B. mtg.	
		R-4773566	Label, CS62	
			Screw, Pan Hd., 3x6 B-tight AM P. C. B. mtg.	
			Screw, Pan Hd., 3x10	
			Nut, Hex Hd., M3 Transistor mtg.	
			Screw, Pan Hd. with Washer, 3x6 B-tight Power supply P. C. B. mtg.	
			Screw, Pan Hd. with Washer, 3x6 B-tight Amp. P. C. B. mtg.	
			Screw, Pan Hd. with Washer, 3x6 B-tight Presetting P. C. B. mtg.	
			Screw, Pan Hd. with Washer, 3x6 B-tight Function lamp P. C. B. mtg.	
			Screw, Pan Hd. with Washer, 3x6 B-tight Tuner P. C. B. mtg.	
			Screw, Pan Hd. with Washer, 3x6 B-tight AM P. C. B. mtg.	
			Screw, Pan Hd. with Washer, "F", 3x14 IC	
			Screw, Pan Hd., 3x8 Function power switch	
			Tap. Screw, Pan Hd., 3x6 Switch	
85		R-277571	Heat sink, Power supply P.C.B. Tr	
87		R-1271802	Chassis	

NOTES: 1. Part orders must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and or resistors must be multiple of 10 pcs.

PARTS LIST

Key No.	Ref. No.	Part No.	Description	Q'ty
			CHASSIS ELECTRICAL PARTS	
42		R-S37089-1	AC cord, L=2000	1
43		R-W77761	Power transformer	1
			Tap. Screw. Pan Hd. with Washer "B", 4x10	4
			Nut with Washer. M4	4
44		R-W77762	Power transformer	1
			Screw. Pan Hd. with Washer. 3x6 B-tight	2
	CS7,25, 3,32,16, 55,14,31	R-S27298-3	Housing, 3P	8
	CS6,8	R-S27298-4	Housing, 4P	2
	CS5	R-S27298-5	Housing, 5P	1
	CS1,29	R-S27298-6	Housing, 6P	2
	CS11,12,15	R-S27298-7	Housing, 7P	3
	CS22,10	R-S27298-9	Housing, 9P	2
	CS33,9	R-S27298-2	Housing, 2P	2
		R-247755	Terminal, Housing	81
45	S1	R-S47548	Push switch, Power	1
			Screw, Pan Hd., 3x8	2
46		R-S57190	Indicator assembly, f meter	1
47		R-S57191	Indicator assembly, Signal/Tuning	1
48		R-S27319	DIN socket, FM ANT	1
49		R-S27361	DIN socket, SP	2
50		R-S27258	Socket, AM ANT.	1
51	S901,902	R-S47222-1	Rotary switch	2
		R-S17243	Cord clip	10
	CS44,45, 43,48	R-377052-4	Housing, 4P	4
	CS42,49, 39,40	R-377052-3	Housing, 3P	4
	CS41,50	R-377052-2	Housing, 2P	2
		R-257158	Terminal, Housing	31
	CS63	R-S27322-4	Socket, ±012	1
	CS62	R-S27322-5	Socket, ±071	1
	CS57	R-S27322-9	Socket, ±072	1
	CS61	R-S27322-10	Socket, ±018	1
	CS59	R-S27322-10	Socket, ±070	1
	CS60	R-S27322-9	Socket, ±008	1
	CS58	R-S27322-5	Socket, ±008	1
52		R-4172177	Printed circuit board, SUB	1/2
53		R-4172226-3	Printed circuit board, Function lamp	1
54		R-4172226-4	Printed circuit board, Meter lamp	1
55		R-4172227	Printed circuit board, Presetting	1
	PL1,2,3, 4,5,6, 7,8,9	R-S17363	Pilot lamp, 14V 40mA, Function lamp P. C. B.	9
	CP31	R-S27260-3	Plug, 3P, Meter lamp P. C. B.	1
		R-257160	Terminal, Meter lamp P. C. B.	2
			NiCd Pack, 3N100AA	1
			SEMICONDUCTORS	
56	IC401,402		Integrated circuit, STK-083	2
	D621,622,623,624,625		LED, SLP237B Green, Presetting P.C.B.	5
	D626		LED, SLP137B Red, Presetting P.C.B.	1
			AMP. P. C. B. ASSEMBLY	
57		R-A74626	Circuit board assembly, Amp.	1
	RY401	R-S47494	Relay	1
		R-237113	Earth terminal	1
	CP33	R-S27207-2	Plug, 2P	1
	CP32	R-S27207-3	Plug, 3P	1
	CP41	R-S27206-2	Plug, 2P	1
	CP39,40, 42	R-S27206-3	Plug, 3P	3
	CP43	R-S27206-4	Plug, 4P	1
			SEMICONDUCTORS	
	IC403		Integrated circuit, HA-12002	1
	Q403,404		Transistor, 2SC1815	2
	Q405		Transistor, 2SA949	1
	D401,402,404		Diode, ITT73N	3
	D403		Diode, SW-1-02C	1
	D405		Diode, WZ-071	1

Key No.	Ref. No.	Part No.	Description	Q'ty
			RESISTORS	
	R453		Carbon, 3.9k ohm, ±5%, ½ W	1
	R415,416		Carbon, 430 ohm, ±5%, ¼ W	2
	R431,432,452		Carbon, 10 k ohm, ±5%, ¼ W	3
	R457		Carbon, 22 k ohm, ±5%, ½ W	1
	R413,414,433,434,421,422		Carbon, 56 k ohm, ±5%, ½ W	6
	R450		Carbon, 150 k ohm, ±5%, ½ W	1
	R423,424		Carbon, 2.7 k ohm, ±5%, ½ W	2
	R425,426		Carbon, 1 k ohm, ±5%, ¼ W	2
	R456		Carbon, 180 k ohm, ±5%, ½ W	1
	R454		Carbon, 39 k ohm, ±5%, ½ W	1
	R419,420,417,418		Carbon, 100 ohm, ±2%, ½ W	4
	R427,428		Cement, 0.22 ohm, ±5%, 5W	2
	R429,430		Metal oxide film, 4.7 ohm, ±5%, 2W	2
	R451		Metal oxide film, 330 ohm, ±5%, 1W	1
	R455		Metal oxide film, 1k ohm, ±5%, 2W	1
			CAPACITORS	
	C413,414,419,420,421,422		Mylar, 0.047 mfd, ±20%, 50V	6
	C403,404		Ceramic, 68 pF, ±5%, 50V, SL	2
	C405,406		Ceramic, 2.2 pF, ±10%, 50V, SL	2
	C409,410,417,418		Electrolytic 220 mfd/50V	4
	C411,412,415,416		Electrolytic 33 mfd/50V	4
	C451		Electrolytic 220 mfd/25V	1
	C452		Electrolytic 2.2 mfd/25V	1
	C450		Electrolytic 1 mfd/25V	1
	C455		Electrolytic 100 mfd/16V	1
	C454		Electrolytic 10 mfd/16V	1
	C407,408		Electrolytic 220 mfd/6.3V	2
	C401,402		Electrolytic 2.2 mfd/50V	2
	C453		Electrolytic, 4.7 mfd/35V	1
			STABILIZER P. C. B. ASSEMBLY	
58		R-A74627	Circuit board assembly, Stabilizer	1
	CP51	R-S27207-5	Plug, 5P	1
	CP54	R-S27207-3	Plug, 3P	1
			SEMICONDUCTORS	
	Q902,905		Transistor, 2SD612	2
	Q903		Transistor, 2SD600	1
	Q904		Transistor, 2SD313	1
	D909		Diode, HZ12C-3	1
	D910		Diode, EQB-01-33	1
	D911		Diode, HZ12A1	1
	D913		Diode, HZ6A3	1
	D914,915,916,917		Diode, ITT73N	4
	D918		Diode, 10D-1 or SM-1	1
			RESISTORS	
	R912		Carbon, 10 ohm, ±5%, ¼ W	1
	R906		Carbon, 330 ohm, ±5%, ¼ W	1
	R908		Carbon, 470 ohm, ±5%, ¼ W	1
	R913		Carbon, 560 ohm, ±5%, ¼ W	1
	R903		Carbon, 6.8 k ohm, ±5%, ½ W	1
	R914		Carbon, 270 ohm, ±5%, ¼ W	1
	R904		Carbon, 10 ohm, ±5%, ½ W	1
	R905		Carbon, 330 ohm, ±5%, ½ W	1
	R909		Cement, 27 ohm, ±5%, 2W, ERQ-2CR	1
			CAPACITORS	
	C935,942,945		Ceramic, 0.04mfd, +80−20%, 50V, F	3
	C933		Electrolytic 220 mfd/50V	1
	C934,936		Electrolytic 100 mfd/35V	2
	C930,932,937,939		Electrolytic 100 mfd/16V	4
	C944		Electrolytic 100 mfd/10V	1
	C940		Electrolytic 100 mfd/6.3V	1
	C949		Electrolytic 470 mfd/10V	1
			DETECTOR P. C. B. ASSEMBLY	
59		R-A74628	Circuit board assembly, Detector	1
	CP48	R-S27206-4	Plug, 4P	1
	CP49	R-S27206-3	Plug, 3P	1

NOTES: 1. Part orders must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and or resistors must be multiple of 10 pcs.

PARTS LIST-

Key No.	Ref. No.	Part No.	Description	Q'ty
	CP50	R-S27206-2	Plug, 2P	1
		R-S27110A	Terminal	12
	SEMICONDUCTORS			
	D905		Diode, S10VB20	1
	D906, 907		Diode, SIRBA20	2
	D908		Diode, SM-1	1
	CAPACITORS			
	C903,904,905,906,909,910,911,912		Mylar, 0.047 mfd, ±20%, 100V	8
	C914,915,916,917,920,922,923		Ceramic, 0.04 mfd, +80 −20%, 50V, F	7
	C901, 902		Electrolytic 4700 mfd/50V	2
	C907		Electrolytic 470 mfd/50V	1
	C908		Electrolytic 470 mfd/35V	1
	C913		Electrolytic 470 mfd/25V	1
	C918		Electrolytic 470 mfd/16V	1
	C925		Mylar, 1.8 mfd, ±20%, 250V.	1
	FUSE P. C. B. ASSEMBLY			
60		R-A74629	Circuit board assembly, Fuse	1
	CS46,47	R-S27362	Socket, 6P	2
		R-S17024	Fuse clip	14
	F4,5,6,7	R-S17214	Fuse, 630 mA	4
	F9	R-S17074-1	Fuse, 200 mA	1
	F2,3	R-S17301-1	Fuse, 6.3A	2
	MAIN FUNCTION P. C. B. ASSEMBLY			
61		R-A74630	Circuit board assembly, Main Function	1
	L10	R-W1780	Choke coil, 2.2 μH	1
	L11	R-W17025	Choke coil, 330 μH	1
	L12	R-W17024	Choke coil, 150 μH	1
	L13	R-W27113	Antenna coil,	1
	L14	R-W27112	Antenna coil,	1
	L15	R-W27114	Antenna coil,	1
	L16	R-W27115	Antenna coil,	1
	L17	R-W27116	Antenna coil,	1
	L18	R-W87019	OSC coil	1
	L19	R-W87020	OSC coil	1
	L20	R-W87021	OSC coil	1
	L21	R-W87022	OSC coil	1
	L22	R-W87023	OSC coil	1
	L23	R-W6756	Choke coil, 3 mH	1
	NL1	R-S1814 or R-S1814-1	Neon lamp	1
	CT6,7,8,11,12,13	R-C0735	Trimmer	6
	CT9,10,14,15	R-C0724-5	Trimmer	4
	F1	R-W17012	LP filter	1
62	S1~9	R-S47524-1	Push switch	1
63		R-S27368	DIN socket, 5P	3
	SVR6	R-R110735	Preset resistor, 20K	1
	SVR7	R-R110727	Preset resistor, 1K	1
	SVR8,9,10	R-R110705	Preset resistor, 50K	3
	T12,13,14,15	R-235128	Eyelet lug	4
		R-257196	Terminal	43
	CP12	R-S27271-7	Plug, 7P	1
	CP13	R-S27271-3	Plug, 3P	1
	CP7,14	R-S27207-3	Plug, 3P	2
	CP6,8	R-S27207-4	Plug, 4P	2
	CP9	R-S27207-2	Plug, 5P	1
	CP19	R-S27207-6	Plug, 6P	1
	CP11,15	R-S27207-7	Plug, 7P	2
	CP10	R-S27207-9	Plug, 9P	1
	CP16	R-S27260-3	Plug, 3P	1
	CP17	R-S27260-6	Plug, 6P	1
	SEMICONDUCTORS			
	IC4		Integrated circuit, LA3133	1
	Q11, 12, 13, 14		Transistor, 2SC930	4
	Q15, 16, 17, 18, 19, 20		Transistor, 2SC536	6
	D24, 45	SVC303Y-AW	Varicap, Do not use mix diodes from different bags but a pair of diodes from a same bag.	2

Key No.	Ref. No.	Part No.	Description	Q't
	D14, 15, 16, 17, 25, 26, 28, 29, 30, 31, 32, 34, 36, 37, 38, 39, 40, 41, 42, 43, 44, 46, 49		Diode, 1S1588 or ITT73N	23
	D18, 19, 20, 21, 22, 23		Diode, BA243	6
	D48		Diode, BA243	1
	D27		Zener diode, HZ6A2	1
	D33		Zener diode, HZ12A1	1
	D47		Zener diode, HZ4C3	1
	D50, 51, 52		Diode, SM-1 or 10D1	3
	D53, 54		Diode, 1S1588 or ITT73N	2
	RESISTORS			
	R90, 109		Carbon, 100 ohm, ±5%, ¼ W	2
	R91, 101, 113, 114, 115, 153, 154, 157, 170, 180		Carbon, 56 k ohm, ±5%, ¼ W	1
	R92, 112, 139		Carbon, 12 k ohm, ±5%, ¼ W	3
	R93, 98, 99, 100, 125, 137, 168, 171, 181		Carbon, 1 k ohm, ±5%, ¼ W	9
	R94, 135		Carbon, 820 ohm, ±5%, ¼ W	2
	R95, 146, 147, 148, 149, 150		Carbon, 560 ohm, ±5%, ¼ W	6
	R96, 97, 124		Carbon, 470 ohm, ±5%, ¼ W	
	R102, 174, 184		Carbon, 22 k ohm, ±5%, ¼ W	
	R105, 103, 156		Carbon, 100 k ohm, ±5%, ¼ W	
	R107		Carbon, 47 k ohm, ±5%, ¼ W	
	R104, 106, 108, 110, 111, 122		Carbon, 10 k ohm, ±5%, ¼ W	
	R116, 130, 133		Carbon, 120 k ohm, ±5%, ¼ W	
	R117, 119, 121		Carbon, 33 k ohm, ±5%, ¼ W	
	R118		Carbon, 470 k ohm, ±5%, ¼ W	
	R123		Carbon, 1.2 k ohm, ±5%, ¼ W	
	R126, 140, 172, 173, 182, 183		Carbon, 220 k ohm, ±5%, ¼ W	
	R128		Carbon, 6.8 k ohm, ±5%, ¼ W	
	R129, 160		Carbon, 330 k ohm, ±5%, ¼ W	
	R131, 132		Carbon, 270 k ohm, ±5%, ¼ W	
	R134		Carbon, 68 ohm, ±5%, ¼ W	
	R136		Carbon, 10 ohm, ±5%, ¼ W	
	R141, 142, 143, 144, 145		Carbon, 220 ohm, ±5%, ¼ W	
	R138		Carbon, 68 k ohm, ±5%, ¼ W	
	R120		Carbon, 470 k ohm, ±5%, ¼ W	
	R161, 162, 163, 164, 165, 155		Carbon, 27 k ohm, ±5%, ¼ W	
	R169		Carbon, 1.5 k ohm, ±5%, ¼ W	
	R127		Solid, 120 ohm, ±10%, ½ W	
	R152, 151, 166		Carbon, 68 ohm, ±5%, ¼ W	
	R167		Metal oxide film, 820 ohm, ±5%, 2W	
	R175, 167, 185, 186		Carbon, 330 k ohm, ±5%, ¼ W	
	R179		Carbon, 100 ohm, ±2%, ¼ W, ERD	
	CAPACITORS			
	C100, 101		Ceramic, 0.01 mfd, ±10%, 50V, YW	
	C155		Ceramic, 5 pF, ±10%, 50V, SL	
	C106, 126, 130		Ceramic, 560 pF, ±10%, 50V, YW	
	C143		Ceramic, 56 pF, ±10%, 50V, SL	
	C150		Ceramic, 3900 pF, ±10%, 50V, YW	
	C102, 104, 105, 110, 128, 129, 153, 156, 131, 111		Ceramic, 0.02 or 0.022 mfd, +80 −20%, 50V, F	
	C108, 109, 115, 117, 118, 161, 134 136, 160, 138, 140, 142		Ceramic, 0.04 or 0.047 mfd, +80 −20%, 50V, F	
	C148, 151, 154, 157, 159		Mylar, 0.022 mfd, ±10%, 50V	
	C145		Mylar, 0.018 mfd, ±10%, 50V	
	C144		Styrol, 200 pF, ±5%, 50V	
	C147		Styrol, 430 pF, ±5%, 50V	
	C172, 182		Ceramic, 470 pF, ±10%, 50V, YW	
	C173, 183		Ceramic, 56 pF, ±10%, 50V, SL	
	C174, 184		Mylar, 0.0033 mfd, ±5%, 50V	
	C175, 185		Mylar, 0.012 mfd, ±5%, 50V	
	C178, 188		Mylar, 0.033 mfd, ±5%, 50V	
	C103, 122		Electrolytic 47 mfd/16V	
	C120, 124, 135, 125, 133, 137, 139, 141		Electrolytic 100 mfd/16V	
	C121		Electrolytic 1 mfd/16V	
	C158		Electrolytic 470 mfd/16V	
	C123		Electrolytic 220 mfd/16V	
	C119		Electrolytic 0.22 mfd/16V	
	C179		Electrolytic 220 mfd/35V	
	C171, 181		Electrolytic 10 mfd/16V	

NOTES: 1. Part orders must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and or resistors must be multiple of 10 pcs.

PARTS LIST

Key No.	Ref. No.	Part No.	Description	Q'ty
	C176, 186		Electrolytic 10 mfd/35V	2
	C177, 187		Electrolytic 47 mfd/10V	2
	C170, 180		Electrolytic 3.3 mfd/25V	2
	C132		Electrolytic 3.3 mfd/16V	1
	AM P. C. B. ASSEMBLY			
64		R-A73930	Circuit board assembly, AM	1
	T4	R-W5T732	IF transformer	1
	T5, 6	R-W5T7010	IF transformer	2
	T7	R-W5T312	IF transformer	1
	T8	R-W5T7009	IF transformer	1
	T9	R-W5T7008	IF transformer	1
	CF5	R-S17346	Ceramic filter	1
	CS4	R-S27373-10	Connector, 10P	1
	CS5	R-S27373-4	Connector, 4P	1
	SEMICONDUCTORS			
	IC3		Integrated circuit, TCA440N	1
	Q6, 7		Transistor, 2SC930	2
	Q8, 9, 10		Transistor, 2SC536	3
	D8, 12		Diode, ITT73N	2
	D10, 11, 9, 13		Diode, IS188 AM	4
	RESISTORS			
	R60		Carbon, 8.2 k ohm, ±5%, 1/4 W	1
	R61, 75, 83, 84		Carbon, 100 k ohm, ±5%, 1/4 W	4
	R62, 76		Carbon, 100 ohm, ±5%, 1/4 W	2
	R63, 69, 77, 80		Carbon, 10 k ohm, ±5%, 1/4 W	4
	R65		Carbon, 680 ohm, ±5%, 1/4 W	1
	R66, 71, 79		Carbon, 1 k ohm, ±5%, 1/4 W	3
	R72		Carbon, 390 ohm, ±5%, 1/4 W	1
	R68		Carbon, 1.8 k ohm, ±5%, 1/4 W	1
	R70, 82		Carbon, 56 k ohm, ±5%, 1/4 W	2
	R74		Carbon, 33 k ohm, ±5%, 1/4 W	1
	R78		Carbon, 4.7 k ohm, ±5%, 1/4 W	1
	R81		Carbon, 15 k ohm, ±5%, 1/4 W	1
	R85		Carbon, 560 k ohm, ±5%, 1/4 W	1
	R86		Carbon, 3.3 k ohm, ±5%, 1/4 W	1
	R649		Carbon, 18 k ohm, ±5%, 1/4 W	1
	R67		Carbon, 39 k ohm, ±5%, 1/4 W	1
	R87		Carbon, 330 ohm, ±5%, 1/4 W	1
	R73		Carbon, 10 k ohm, ±5%, 1/4 W	1
	CAPACITORS			
	C97		Ceramic, 560 pF, ±10%, 50V, YW	1
	C71		Ceramic, 56 pF, ±10%, 50V, SL	1
	C76		Ceramic, 33 pF, ±10%, 50V, SL	1
	C77, 89		Ceramic, 10 pF, ±10%, 50V, SL	2
	C90		Ceramic, 8 pF, ±10%, 50V, SL	1
	C66, 67, 69, 74, 79, 80, 70, 86, 87, 95, 82		Ceramic, 0.04 or 0.047mfd, -80-20%, 50V	11
	C72, 75, 78		Ceramic, 0.02 or 0.022mfd, -80-20%, 50V	3
	C81		Mylar, 0.01 mfd, ±10%, 50V	1
	C84		Mylar, 0.0027 mfd, ±10%, 50V	1
	C85		Mylar, 0.0015 mfd, ±10%, 50V	1
	C98		Electrolytic 220 mfd/16V	1
	C68		Electrolytic 100 mfd/16V	1
	C65		Electrolytic 22 mfd/16V	1
	C73, 88		Electrolytic 4.7 mfd/16V	2
	C92, 93, 96		Electrolytic 1 mfd/16V	3
	C83		Electrolytic 0.47 mfd/16V	1
	C94		Mylar, 0.027 mfd, ±10%, 50V	1
	FM P. C. B. ASSEMBLY			
65		R-A74631	Circuit board assembly, FM	1
	L1, 2	R-W9725	VHF coil	2
	L3	R-W9726	VHF coil	1
	L4	R-W9716	VHF coil	1
	L5	R-W17023	Choke coil, 1 μH	1
	L7	R-W1798	Choke coil, 18 μH	1
	L8, 9	R-W17014	LP filter	2
	T1	R-W5T766	IF transformer	1

Key No.	Ref. No.	Part No.	Description	Q'ty
	T2	R-W5T7011	IF transformer	1
	T3	R-W5T7012	IF transformer	1
	CF1, 2, 3, 4	R-S17339	Ceramic filter, Do not use different ranks.	4
	CT1, 2, 3	R-C0716	Trimmer	3
	CT4	R-C0710	Trimmer	1
	SVR1, 6	R-R110705	Preset resistor, 50K	2
	SVR2, 5	R-R110741	Preset resistor, 500K	2
	SVR3	R-R110735	Preset resistor, 20K	1
	SVR4	R-R110729	Preset resistor, 5K	1
	CS1	R-S27373-4	Connector, 4P	1
	CS2	R-S27373-13	Connector, 13P	1
	CS3	R-S27373-12	Connector, 12P	1
	SEMICONDUCTORS			
	IC1		Integrated circuit, LA1231	1
	IC2		Integrated circuit, μPC1161	1
	Q1		FET, 3SK45	1
	Q2, 4		Transistor, 2SC1923	2
	Q3, 5		Transistor, 2SC930	2
	D1, 2, 3, 4	SVC201Y-AM	Varicap, Do not use mix diodes	4
	D5		from different bags but a pair of	
	D6, 7		diodes from a same bag.	
	D5		Diode, IS188 FM	1
	D6, 7		Diode, ITT73N	2
	RESISTORS			
	R1, 2, 6, 11, 12		Carbon, 220 k ohm, ±5%, 1/4 W	5
	R3		Carbon, 270 k ohm, ±5%, 1/4 W	1
	R4, 26		Carbon, 100 k ohm, ±5%, 1/4 W	2
	R5		Carbon, 120 ohm, ±5%, 1/4 W	1
	R7		Carbon, 4.7 k ohm, ±5%, 1/4 W	1
	R8, 44, 45		Carbon, 22 k ohm, ±5%, 1/4 W	3
	R9		Carbon, 39 k ohm, ±5%, 1/4 W	1
	R10, 14, 21, 54, 55		Carbon, 1 k ohm, ±5%, 1/4 W	5
	R13		Carbon, 180 ohm, ±5%, 1/4 W	1
	R40		Carbon, 1.5 k ohm, ±5%, 1/4 W	1
	R16, 46, 47, 22, 28		Carbon, 10 k ohm, ±5%, 1/4 W	5
	R17		Carbon, 470 ohm, ±5%, 1/4 W	1
	R18		Carbon, 56 k ohm, ±5%, 1/4 W	1
	R19, 31		Carbon, 8.2 k ohm, ±5%, 1/4 W	2
	R20, 24, 29		Carbon, 330 ohm, ±5%, 1/4 W	3
	R53		Carbon, 27 k ohm, ±5%, 1/4 W	1
	R25		Carbon, 220 ohm, ±5%, 1/4 W	1
	R27, 37		Carbon, 2.7 k ohm, ±5%, 1/4 W	2
	R30, 36		Carbon, 56 k ohm, ±5%, 1/4 W	2
	R32		Carbon, 100 ohm, ±5%, 1/4 W	1
	R33		Carbon, 18 k ohm, ±5%, 1/4 W	1
	R34		Carbon, 560 ohm, ±5%, 1/4 W	1
	R59		Carbon, 6.8 k ohm, ±5%, 1/4 W	1
	R41		Carbon, 15 k ohm, ±5%, 1/4 W	1
	R42, 48, 49		Carbon, 47 k ohm, ±5%, 1/4 W	3
	R50, 51		Carbon, 3.3 k ohm, ±5%, 1/4 W	2
	R56, 57		Carbon, 8.2 k ohm, ±5%, 1/4 W	2
	R15		Carbon, 2.2 k ohm, ±5%, 1/4 W	1
	R38, 43		Solid, 120 ohm, ±10%, 1/2 W	2
	R52		Carbon, 68 ohm, ±10%, 1/2 W	1
	R39		Carbon, 12 k ohm, ±5%, 1/4 W	1
	CAPACITORS			
	C4		Ceramic, 120 pF, ±10%, 50V, YW	1
	C1, 26, 27, 33		Ceramic, 15 pF, ±10%, 50V, SL	4
	C2, 12, 29		Ceramic, 10 pF, ±10%, 50V, SL	3
	C20		Ceramic, 10 pF, ±10%, 50V, UJ	1
	C22		Ceramic, 10 pF, ±10%, 50V, TH	1
	C6, 10		Ceramic, 12 pF, ±10%, 50V, SL	1
	C15		Ceramic, 390pF, ±10%, 50V, YW	1
	C23		Ceramic, 30 pF, ±10%, 50V, SL	1
	C41		Ceramic, 33 pF, ±10%, 50V, SL	1
	C24		Ceramic, 6 pF, ±10%, 50V, SL	1
	C51		Ceramic, 560 pF, ±10%, 50V, YW	1
	C13		Ceramic, 5 pF, ±0.25pF, 50V, SL	1

NOTES: 1. Part orders must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and or resistors must be multiple of 10 pcs.

PARTS LIST

Key No.	Ref. No.	Part No.	Description	Q'ty
	C21		Ceramic, 1pF, ±0.25pF, 50V, SL	1
	C3, 7, 11, 19		Ceramic, 0.001mfd, ±10%, 50V, YW	4
	C5, 8, 9, 14, 16, 28, 30, 31, 32, 35		Ceramic, 0.02mfd, −80−20%, 50V, F	10
	C37, 38, 39, 43, 47, 48		Ceramic, 0.04mfd, −80−20%, 50V, F	6
	C53		Styrol, 510 pF, ±5%, 50V	1
	C52		Mylar, 0.047 mfd, ±10%, 50V	1
	C58, 59		Mylar, 0.0012 mfd, ±10%, 50V	2
	C50		Electrolytic 330 mfd/16V	1
	C34, 46		Electrolytic 220 mfd/16V	2
	C49, 56, 57		Electrolytic 4.7 mfd/16V	3
	C54, 55		Electrolytic 10 mfd/16V	2
	C36, 40, 45		Electrolytic 1 mfd/16V	3
	C42		Electrolytic 2.2 mfd/16V	1
	C17		Electrolytic 47 mfd/16V	1
	C62		Electrolytic 3.3 mfd/16V	1
	C60		Electrolytic 1 mfd/16V	1
	C61		Electrolytic 0.22 mfd/16V	1
	C18		Electrolytic 0.47 mfd/16V	1
	AC RELAY P. C. B. ASSEMBLY			
66		R-A74632	Circuit board assembly, AC relay	1
	L901,902	R-W17004	Choke coil, 40 μH	2
	J901,902	R-237188	Eyelet lug	2
	SA901		Z trap, ENB461D-14A	1
	LOGIC P. C. B. ASSEMBLY			
67		R-A73938	Circuit board assembly, Logic	1
	L801	R-W6758	Choke coil	1
	L802	R-W6750	Choke coil, 800 μH	1
	L803	R-W1793	Choke coil, 1.8 μH	1
	CP63	R-S27321-4	Plug, 4P	1
	CP58,62	R-S27321-5	Plug, 5P	2
	CP57,60	R-S27321-9	Plug, 9P	2
	CP59,61	R-S27321-10	Plug, 10P	2
	SEMICONDUCTORS			
	IC801		LSI, S867	1
	IC802		Integrated circuit, TC5017	1
	IC803, 804		Integrated circuit, BA618	2
	IC805, 806		Integrated circuit, BA612	2
	IC807		Integrated circuit, MC14049	1
	IC808, 809, 811		Integrated circuit, MC14081	3
	IC810		Integrated circuit, MC14011	1
	Q801		Transistor, 2SD600	1
	D801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818		Diode, ITT73N	18
	RESISTORS			
	R801, 802, 809, 810, 812, 813, 805, 807, 828, 830, 831		Carbon, 100 k ohm, ±5%, ¼W	11
	R811, 814		Carbon, 100 k ohm, ±5%, ½W	2
	R815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825		Carbon, 100 ohm, ±10%, ¼W	11
	R826		Carbon, 10 k ohm, ±5%, ½W	1
	R827		Carbon, 1.5 k ohm, ±5%, ½W	1
	R803		Carbon, 180 k ohm, ±5%, ¼W	1
	R804, 808, 829		Carbon, 100 k ohm, ±5%, ¼W	3
	R835		Carbon, 33 k ohm, ±5%, ¼W	1
	R832		Carbon, 15 k ohm, ±5%, ¼W	1
	R806		Carbon, 150 k ohm, ±5%, ¼W	1
	R834		Carbon, 1 k ohm, ±5%, ¼W	1
	CAPACITORS			
	C806		Ceramic, 56 pF, ±10%, 50V, SL	1
	C809		Ceramic, 0.001mfd, ±10%, 50V, YW	1
	C802, 807		Ceramic, 0.022mfd, +80−20%, 50V, F	2
	C804		Ceramic, 0.04mfd, +80−20%, 50V, F	1
	C801		Electrolytic 220 mfd/16V	1
	C805		Electrolytic 2.2 mfd/16V	1
	C803, 808, 810		Electrolytic 10 mfd/16V	3
	POWER SUPPLY P. C. B. ASSEMBLY			
68		R-A74110	Circuit board assembly, Power supply	1

Key No.	Ref. No.	Part No.	Description	Q'ty
	SVR801	R-R110727	Preset resistor, 1K	
	CP55	R-S27260-3	Plug, 3P	
	SEMICONDUCTORS			
	IC901		Integrated circuit, FS-7805CM or μA7805M	
	RESISTORS			
	R916		Carbon, 100 ohm, ±5%, W	
	R915		Carbon, 18 ohm, ±5%, W	
	CAPACITORS			
	C947		Electrolytic 1 mfd/25V	
	C948		Electrolytic 10 mfd/10V	
	AUDIO SW P. C. B. ASSEMBLY			
69		R-A74633	Circuit board assembly, Audio SW	
70	S1, 2, 13, 14, 15, 22	R-S47549	Push switch	
		R-257160	Terminal	
	CP22	R-S27207-9	Plug, 9P	
	CP26	R-S27207-3	Plug, 3P	
	SEMICONDUCTORS			
	Q311, 312, 313, 314		Transistor, 2SC1570	
	D301, 302, 303, 304, 305		Diode, ITT73N or DS442	
	RESISTORS			
	R311, 312		Carbon, 1 k ohm, ±5%, W	
	R313, 314, 323, 324		Carbon, 1 M ohm, ±5%, W	
	R315, 316, 325, 326		Carbon, 470 k ohm, ±5%, W	
	R317, 318, 327, 328, 335, 336		Carbon, 5.6 k ohm, ±5%, W	
	R319, 320, 329, 330, 333, 334		Carbon, 100 k ohm, ±5%, W	
	R321, 322		Carbon, 4.7 k ohm, ±5%, W	
	R331, 332		Carbon, 2.2 k ohm, ±5%, W	
	R301, 302		Carbon, 10 k ohm, ±5%, W	
	R305		Carbon, 68 ohm, ±5%, W	
	CAPACITORS			
	C301		Ceramic, 0.04mfd, −80−20%, 50V, F	
	C315, 316, 321, 322		Ceramic, 470 pF, ±10%, 50V, SB	
	C327, 328		Mylar, 0.039 mfd, ±10%, 50V	
	C325, 326		Mylar, 0.01 mfd, ±10%, 50V	
	C329, 330		Mylar, 0.068 mfd, ±10%, 50V	
	C313, 314, 319, 320		Electrolytic 0.47 mfd/50V	
	C317, 318, 323, 324		Electrolytic 4.7 mfd/35V	
	KEYBOARD SW P. C. B. ASSEMBLY			
71		R-A74634	Circuit board assembly, Keyboard SW	
72	S601 S613	R-S47459	Key switch	
73	S614	R-S47400-3	Push switch	
	SEMICONDUCTORS			
	D601~614		Diode, ITT73N	
	MULTI P. C. B. ASSEMBLY			
74		R-A74635	Circuit board assembly, Multi	
	PL601, 602, 603	R-S17363	Pilot lamp, 14V 40 mA	
75			Multi LED, SL-2444-04K	
76			Multi LED, SL-2162-02K	
	NOTE P. C. B. ASSEMBLY			
77		R-A74636	Circuit board assembly, Tone	
78	VR351,352, 353,354	R-R1167264-1	Variable resistor, 100K-Bx2, Treble/Bass	
79	VR355,356	R-R1167262-1	Variable resistor, 100K-M, N, Bal.	
80	R357,358	R-R1167278	Variable resistor, 100K-Kx2, Vol.	
81		R-S47525-1	Rotary-slide switch	
82		R-S27210A	Headphone jack	
	CP44,45	R-S27206-4	Plug, 4P	
	SEMICONDUCTORS			
	Q351, 352, 353, 354		Transistor, 2SC1570	
	Q381, 382		Transistor, 2SC536	
	D381, 382		Diode, ITT73N or DS442	
	RESISTORS			
	R351, 352		Carbon, 470 ohm, ±5%, ¼W	
	R353, 354		Carbon, 1M ohm, ±5%, ¼W	
	R355, 356		Carbon, 470 k ohm, ±5%, ¼W	

NOTES: 1. Part orders must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and or resistors must be multiple of 10 pcs.

PARTS LIST

Key No.	Ref. No.	Part No.	Description	Q'ty
	R357, 358, 371, 372		Carbon, 5.6 k ohm, ±5%, $\frac{1}{4}$W	4
	R359, 360, 365, 366		Carbon, 10 k ohm, ±5%, $\frac{1}{4}$W	4
	R361, 362		Carbon, 18 k ohm, ±5%, $\frac{1}{4}$W	2
	R363, 364		Carbon, 2.2 k ohm, ±5%, $\frac{1}{4}$W	2
	R367, 368		Carbon, 33 k ohm, ±5%, $\frac{1}{4}$W	2
	R369, 370, 375, 376		Carbon, 220 k ohm, ±5%, $\frac{1}{4}$W	4
	R373, 374		Carbon, 1 k ohm, ±5%, $\frac{1}{4}$W	2
	R377, 378		Carbon, 1.5 k ohm, ±5%, $\frac{1}{4}$W	2
	R384		Carbon, 56 k ohm, ±5%, $\frac{1}{4}$W	1
	R381, 382		Carbon, 100 ohm, ±2%, $\frac{1}{4}$W, ERD	2
	R385, 386		Metal oxide film, 330 ohm, ±5%, 2W	2
	R383, 379, 380		Carbon, 100 k, ±5%, $\frac{1}{4}$W	3
	CAPACITORS			
	C353, 354		Ceramic, 470 pF, ±10%, 50V, SB	2
	C371, 372		Ceramic, 270 pF, ±10%, 50V, SB	2
	C365, 366		Ceramic, 10 pF, ±5%, 50V, SL	2
	C357, 358, 359, 360		Mylar, 0.047 mfd, ±10%, 50V	4
	C361, 362		Mylar, 0.0012 mfd, ±10%, 50V	2
	C381, 382		Electrolytic 330 mfd/35V	2
	C355, 356, 363, 364, 369, 370		Electrolytic 4.7 mfd/35V	6
	C367, 368		Electrolytic 220 mfd/6.3V	2
	C381		Electrolytic 2.2 mfd/35V	1
	C351, 352		Electrolytic 0.47 mfd/50V	2
	PLL P. C. B. ASSEMBLY			
83		R-A74637	Circuit board assembly, PLL	1
	L701	R-W1793	Choke coil, 1.8 μH	1
	L702	R-W17020	Choke coil, 300 μH	1
	L703	R-W1794	Choke coil, 15 μH	1
	RY701, 702	R-S47493-1	Relay	2
		R-C0732	Trimmer	1
		R-S17353	Crystal oscillator, 7.2M	1
		R-S27240-3	Socket, 24P	1
	SEMICONDUCTORS			
	IC706		LSI, S868	1
	IC701, 702		Integrated circuit, μPB551	2
	IC703		Integrated circuit, MC14081	1
	IC704		Integrated circuit, CD4017	1
	IC705		Integrated circuit, CD4025	1
	Q701		Transistor, 2SC1923	1
	Q702		Transistor, 2SC930	1
	Q703		Transistor, 2SC2210	1
	Q704, 705		Transistor, 2SA733	2
	Q706, 707		Transistor, 2SC945	2
	Q708, 709, 710, 711, 712, 713, 714, 715		Transistor, 2SC536	8
	D701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714		Diode, ITT73N	14
	RESISTORS			
	R710		Carbon, 47 ohm, ±5%, $\frac{1}{4}$W	1
	R703, 707		Carbon, 100 ohm, ±5%, $\frac{1}{4}$W	2
	R702		Carbon, 220 ohm, ±5%, $\frac{1}{4}$W	1
	R706, 729		Carbon, 470 ohm, ±5%, $\frac{1}{4}$W	2
	R713		Carbon, 820 ohm, ±5%, $\frac{1}{4}$W	1
	R715, 727, 728, 730, 736, 740		Carbon, 1 k ohm, ±5%, $\frac{1}{4}$W	6
	R714		Carbon, 1.5 k ohm, ±5%, $\frac{1}{4}$W	1
	R739		Carbon, 2.2 k ohm, ±5%, $\frac{1}{4}$W	1
	R719		Carbon, 3.3 k ohm, ±5%, $\frac{1}{4}$W	1
	R738		Carbon, 1.8 k ohm, ±5%, $\frac{1}{4}$W	1
	R721, 722		Carbon, 6.8 k ohm, ±5%, $\frac{1}{4}$W	2
	R712, 720, 723, 733		Carbon, 10 k ohm, ±5%, $\frac{1}{4}$W	4
	R734		Carbon, 56 k ohm, ±5%, $\frac{1}{4}$W	1
	R701, 704, 705, 708		Carbon, 100 k ohm, ±5%, $\frac{1}{4}$W	4
	R709		Carbon, 270 ohm, ±5%, $\frac{1}{4}$W	1
	R735		Carbon, 1 k ohm, ±5%, $\frac{1}{4}$W	1
	R742		Carbon, 1.5 k ohm, ±5%, $\frac{1}{4}$W	1
	R732		Carbon, 3.3 k ohm, ±5%, $\frac{1}{4}$W	1
	R724, 725, 731, 741		Carbon, 10 k ohm, ±5%, $\frac{1}{4}$W	4
	R711		Carbon, 12 k ohm, ±5%, $\frac{1}{4}$W	1
	R726		Carbon, 56 k ohm, ±5%, $\frac{1}{4}$W	1

Key No.	Ref. No.	Part No.	Description	Q'ty
	R716		Carbon, 1.8 k ohm, ±5%, $\frac{1}{4}$W	1
	R717		Carbon, 3.9 k ohm, ±5%, $\frac{1}{4}$W	1
	R718		Carbon, 10 k ohm, ±5%, $\frac{1}{4}$W	1
	R744		Carbon, 2.2 M ohm, ±5%, $\frac{1}{4}$W	1
	R737, 743		Solid, 10 M ohm, ±5%, $\frac{1}{4}$W	2
	CAPACITORS			
	C723		Ceramic, 10 pF, ±10%, 50V, SL	1
	C702, 703		Ceramic, 30 pF, ±10%, 50V, SL	2
	C716		Ceramic, 40 pF, ±10%, 50V, SL	1
	C707		Ceramic, 100 pF, ±10%, 50V, SL	1
	C708		Ceramic, 150 pF, ±10%, 50V, SL	1
	C718		Ceramic, 220 pF, ±10%, 50V, SL	1
	C705		Ceramic, 470 pF, ±10%, 50V, SL	1
	C711, 720		Ceramic, 820 pF, ±10%, 50V, YW	2
	C704, 719		Ceramic, 0.001 mfd, ±10%, 50V, YW	2
	C717		Ceramic, 5 pF, ±0.25 pF, 50V, SL	1
	C706, 709, 710, 715, 730, 732		Ceramic, 0.022 mfd, +80−20%, 50V, F	6
	C712, 731		Ceramic, 0.04 mfd, +80−20%, 50V, F	2
	C701, 714		Electrolytic 47 mfd/6.3V	2
	C721		Electrolytic 4.7 mfd/16V	1
	C728, 729, 713		Electrolytic 10 mfd/16V	3
	C722		Electrolytic 0.47 mfd/25V	1
	C724		Electrolytic 1 mfd/25V	1
	C727, 725		Electrolytic 1 mfd/35V Tantal	2
	RF P. C. B. ASSEMBLY			
84		R-A75054	Circuit board assembly, RF	1
	L554	R-W27112	Antenna coil	1
	L553	R-W27113	Antenna coil	1
	L551	R-W1798	Choke coil, 18 μH	1
	L552	R-W17025	Choke coil, 330 μH	1
	CT551, 552	R-C0735	Trimmer	2
	RY551	R-S47493-1	Relay	1
		R-S27260-9	Plug	1
	SEMICONDUCTORS			
	D551, 552, 553, 554		Diode, 1S1588	4
	RESISTORS			
	R552, 553		Carbon, 470 ohm, ±5%, $\frac{1}{4}$W	2
	R554		Carbon, 18 k ohm, ±5%, $\frac{1}{4}$W	1
	R555		Carbon, 220 k ohm, ±5%, $\frac{1}{4}$W	1
	R551		Solid, 150 ohm, ±5%, $\frac{1}{4}$W	1
	CAPACITORS			
	C553, 554		Ceramic, 0.02 mfd	2
	C551, 552		Ceramic, 0.04 mfd, ±5%, 50V	2
	C555		Ceramic, 5 pF, ±0.25 pF	1

NOTES: 1. Part orders must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and or resistors must be multiple of 10 pcs.